

20010718.qrp v02_n254.qrl.20010718

Date: Wed, 18 Jul 2001 19:03:09 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2254

QRP-L Digest 2254

Topics covered in this issue include:

- 1) [102906] Re: AZ ScQRPions' LED SWR circuit
by "Bob Hightower" <nk7m@extremezone.com>
- 2) [102907] BIG KITE: Transporting, Beach Flying/operating...
by "ss lyon" <sslyon@megalink.net>
- 3) [102908] Re: Half wave end fed question and LED SWR meter???
by Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
- 4) [102909] RE: BIG KITE: Transporting, Beach Flying/operating...
by <schoon@amgt.com>
- 5) [102910] Color me back - from CO
by "Paul Harden, NA5N" <na5n@rt66.com>
- 6) [102911] WBR
by "Brian Murrey" <bmurrey@amexol.net>
- 7) [102912] Half wave end fed question
by anthony@pacinfosb.com
- 8) [102913] Re: Information about MFE201
by "Ingo DK3RED" <dk3red@t-online.de>
- 9) [102914] Cub Fox KB9YIG final(?) log
by "Tony Parks" <robert.parks11@gte.net>
- 10) [102915] Re: Half wave end fed question and LED SWR meter???
by lhlousek <lhlousek@nvtbell.net>
- 11) [102916] [QuickReview] Maldol 10M Antenna for FT-817
by adamvaz@palm.net (Adam Vazquez)
- 12) [102917] Cub Fox AA3UR Thunderstorm
by "David Porter" <aa3ur@home.com>
- 13) [102918] Cub Fox AA3UR Equipment Problems
by "David Porter" <aa3ur@home.com>
- 14) [102919] Help to locate OHR QRP SPIRIT Manual
by "Bob Cooley" <ad4mz@hotmail.com>
- 15) [102920] Some sites to bookmark
by ARDUJENSKI@aol.com
- 16) [102921] Re: The FT-817's niche
by "Caitlyn M. Martin" <ku4qd@qsl.net>
- 17) [102922] Cub Fox AA3UR NOT
by "David Porter" <aa3ur@home.com>
- 18) [102923] Re: Cub Fox AA3UR Equipment Problems
by "Karl F. Larsen" <k5di@zianet.com>
- 19) [102924] QRP-ACRI HB Sprint with K1 & NiMH batts

- by "Rod Cerkoney, NØRC" <rod@n0rc.com>
- 20) [102925] RE: Cub Fox AA3UR Equipment Problems
by <schoon@amgt.com>
- 21) [102926] Coil, tuner, or vee?
by Scott McCullough <mcwood@cornhusker.net>
- 22) [102927] RE: Cub Fox AA3UR Equipment Problems
by "Len Revelle" <lenrev@ameritech.net>
- 23) [102928] Cub Fox?
by Paul Womble <pwomble1@tampabay.rr.com>
- 24) [102929] W3FF Antenna and Fox Hunting
by "Karl F. Larsen" <k5di@zianet.com>
- 25) [102930] Micro Wankel rotary engine was Re: Portable Power Generator
by Randy & Cara Randall <crrandal@seidata.com>
- 26) [102931] Cub Fox AA3UR Yesssss!
by "David Porter" <aa3ur@home.com>
- 27) [102932] Re: Cub Fox
by "Mike Malone" <mmalone@worldlogon.com>
- 28) [102933] Re: Cub Fox AA3UR Yesssss!
by "Karl F. Larsen" <k5di@zianet.com>
- 29) [102934] Anyone Heard Cub FOX Dave AA3UR?
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 30) [102935] Dual FOX Hunt Thursday evening
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 31) [102936] Re: Cub Fox AA3UR Yesssss!
by "George, W5YR" <w5yr@att.net>
- 32) [102937] Re: Cub Fox
by "George, W5YR" <w5yr@att.net>
- 33) [102938] FOX - No Cubs Tonight... :-(
by Todd Enders <enders@bolshoi.cc.misu.nodak.edu>
- 34) [102939] Cub Fox Log AA3UR (Preliminary)
by "David Porter" <aa3ur@home.com>
- 35) [102940] Re: QRP-ACRI HB Sprint with K1 & NiMH batts
by "Rod Cerkoney, NØRC" <rod@n0rc.com>
- 36) [102941] Re: Half wave end fed question
by Bill Meara <n2cqr@clix.pt>
- 37) [102942] Re: Micro Wankel rotary engine was Re: Portable Power Generator
by "Leon Heller" <leon_heller@hotmail.com>
- 38) [102943] Re: The FT-817's niche
by Bruce Muscolino <w6toy@erols.com>
- 39) [102944] Re: Half wave end fed question
by Bruce Muscolino <w6toy@erols.com>
- 40) [102945] Re: [QuickReview] Maldol 10M Antenna for FT-817
by Bruce Muscolino <w6toy@erols.com>
- 41) [102946] Re: Coil, tuner, or vee?
by Bruce Muscolino <w6toy@erols.com>
- 42) [102947] Re: Coil, tuner, or vee?
by Bruce Muscolino <w6toy@erols.com>
- 43) [102948] Re: Half wave end fed question

by Bruce Muscolino <w6toy@erols.com>
44) [102949] ScQRPion SVSI,SOP Rx, Fireball torids?
by "Dennis Ponsness" <wb0wao@hotmail.com>
45) [102950] FOX - N5IB Thursday 7/19
by n5ib@juno.com
46) [102951] FT-817 Comments
by Tim ORourke <TORourke@KaiserFT.com>
47) [102952] Re: Dual FOX Hunt Thursday evening
by "Karl F. Larsen" <k5di@zianet.com>
48) [102953] Re: feedline WEIGHT
by John R Kirby <n3aaz-qrp@juno.com>
49) [102954] Re: CUB FOX HUNT SOAPBOX
by "Mike Malone" <mmalone@worldlogon.com>
50) [102955] RE: Micro Wankel rotary engine was Re: Portable Power Generator
by "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
51) [102956] Verticals, Long wire, and qsb
by Kenneth Hoglund <hoglund@wfu.edu>
52) [102957] NorCal
by Mike&Paula <herr@ridgecrest.ca.us>
53) [102958] OH0/OK2DA/P
by Edgerhardt@aol.com
54) [102959] Re: Verticals, Long wire, and qsb
by Bruce Muscolino <w6toy@erols.com>
55) [102960] NN1G two-board transceiver
by "tbowman@nbn.net" <tbowman@nbn.net>
56) [102961] Re: OH0/OK2DA/P
by Bruce Muscolino <w6toy@erols.com>
57) [102962] Re: OH0/OK2DA/P
by Paul Womble <pwomble1@tampabay.rr.com>
58) [102963] Re: NN1G two-board transceiver
by Bruce Muscolino <w6toy@erols.com>
59) [102964] Re: OH0/OK2DA/P
by "Ingo DK3RED" <dk3red@t-online.de>
60) [102965] QSB et al
by Kenneth Hoglund <hoglund@wfu.edu>
61) [102966] Re: OH0/OK2DA/P
by Bruce Muscolino <w6toy@erols.com>
62) [102967] Re: NN1G two-board transceiver
by "tbowman@nbn.net" <tbowman@nbn.net>
63) [102968] Re: OH0/OK2DA/P
by lhlousek <lhlousek@nvhbell.net>
64) [102969] Re: NorCal
by "Dave Fifield" <dave@redhotradio.com>
65) [102970] Cub FOX AA3UR
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
66) [102971] Preliminary Cub Fox Log from KD5KXF
by "Mike Malone" <mmalone@worldlogon.com>
67) [102972] RE: ScQRPion SVSI,SOP Rx, Fireball torids?

by George Heron <gheron@safenet-inc.com>
68) [102973] Wire Inductance
by "James P. Osburn, P.E." <j.p.osburn@ieee.org>
69) [102974] Re: ScQRPion SVSI,SOP Rx, Fireball torids?
by Dan Tayloe <dtayloe@home.com>
70) [102975] re: Miracle Antenna
by "Laurent C. Lafond" <aa1qj@earthlink.net>
71) [102976] Floating counterpoise?
by ARDUJENSKI@aol.com
72) [102977] RE: Miracle Antenna
by "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
73) [102978] RE: Floating counterpoise?
by "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
74) [102979] FS Sierra
by "Rod Cerkoney, NØRC" <rod@n0rc.com>
75) [102980] Re: OH0/OK2DA/P
by "John L. Sielke" <w2agn@pobox.com>
76) [102981] Re: Miracle Antenna
by Phil Wheeler <w7ox@earthlink.net>
77) [102982] Spell Check
by "John L. Sielke" <w2agn@pobox.com>
78) [102983] Re: OH0/OK2DA/P
by Phil Wheeler <w7ox@earthlink.net>
79) [102984] Re: Miracle Antenna
by Phil Wheeler <w7ox@earthlink.net>
80) [102985] Re: Spell Check
by Phil Wheeler <w7ox@earthlink.net>
81) [102986] Take a deep breath
by "Bill Jones" <kd7s@psnw.com>
82) [102987] Is there a MOJO Claus?
by Shepherd@aol.com
83) [102988] W3FF Ant on 30 Meters
by "Karl F. Larsen" <k5di@zianet.com>
84) [102989] Re: NN1G two-board transceiver
by "Leon Heller" <leon_heller@hotmail.com>
85) [102990] Re: The niche for the FT-817
by "Mike Yetsko" <myetsko@insydesw.com>
86) [102991] QRP & Homebrewing Links Page from NJ QRP Club.
by Jim Larsen AL7FS <AL7FS@pobox.alaska.net>
87) [102992] Re: Color me back - from CO
by "Rod Cerkoney, NØRC" <rod@n0rc.com>
88) [102993] Re: Color me back - from CO
by "Jack Ricci" <ricci@mnsi.net>
89) [102994] The NorCal Page
by Jerry Parker <jparker@fix.net>
90) [102995] Re: The NorCal Page
by Phil Wheeler <w7ox@earthlink.net>
91) [102996] Re: Half wave end fed question

- by Arthur G Silvers <ags@ieee.org>
- 92) [102997] Help With Old Radio
by Tim O'Rourke <TO'Rourke@KaiserFT.com>
- 93) [102998] FS or FT 12v 4.5Ahr gel cells
by "Craig A. Ferris" <cferris@aeronix.com>
- 94) [102999] WTB: Lafayette HE-10 Receiver
by "Ed Manuel (N5EM)" <n5em@flash.net>
- 95) [103000] Re: Color me back - from CO
by "Rod Cerkoney, NØRC" <rod@n0rc.com>
- 96) [103001] Re: WBR
by MertNellis@aol.com
- 97) [103002] Re: QSB et al
by Bruce Muscolino <w6toy@erols.com>
- 98) [103003] Gold Rush...when?
by "N7SG K7FD" <k7fd@hotmail.com>
- 99) [103004] Apology to list
by "Ed Howell" <kb2nto@hfent.com>
- 100) [103005] Re: Miracle Antenna
by Bruce Muscolino <w6toy@erols.com>
- 101) [103006] Re: Floating counterpoise?
by Bruce Muscolino <w6toy@erols.com>
- 102) [103007] CQC Gold Rush, 7/28
by "Marshall Emm" <mgemm@mttechnologies.com>
- 103) [103008] Re: Gold Rush...when?
by "Rod Cerkoney, NØRC" <rod@n0rc.com>
- 104) [103009] Re: OH0/OK2DA/P
by Bruce Muscolino <w6toy@erols.com>
- 105) [103010] RE: Horizontal Loop Length
by Bill Coleman <aa4lr@arrl.net>
- 106) [103011] Re: W3FF Ant on 30 Meters
by Bruce Muscolino <w6toy@erols.com>
- 107) [103012] Re: Horizontal Loops: Bigger is Better... (Long-ish)
by Bill Coleman <aa4lr@arrl.net>
- 108) [103013] Re: Half wave end fed question
by Bruce Muscolino <w6toy@erols.com>
- 109) [103014] re: Miracle Antenna
by "Laurent C. Lafond" <aa1qj@earthlink.net>
- 110) [103015] Re: Half wave end fed question and LED SWR meter???
- by Wes Hayward <w7zoi@easystreet.com>
- 111) [103016] Re: Help With Old Radio
by Bruce Muscolino <w6toy@erols.com>
- 112) [103017] Re: NN1G two-board transceiver
by "Mike Branca" <w3irz@att.net>
- 113) [103018] WBR questions answered by Author
by "Brian Murrey" <bmurrey@amexol.net>
- 114) [103019] NETXQRP Club Meeting
by "Chuck Carpenter" <w5usj@globeco.net>

Date: Tue, 17 Jul 2001 15:55:15 -0700
From: "Bob Hightower" <nk7m@extremezone.com>
To: <dmaliniak@penton.com>
Cc: "qrp list" <qrp-l@lehigh.edu>
Subject: [102906] Re: AZ ScQRPions' LED SWR circuit
Message-ID: <001301c10f13\$8d020680\$6a137d3f@de11>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Actually, it's at <http://www.extremezone.com/~nk7m/n7veswr.htm>

Bob

----- Original Message -----

From: <dmaliniak@penton.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, July 17, 2001 11:36 AM
Subject: AZ ScQRPions' LED SWR circuit

> Lou W7DZN, wrote:
> I've seen around and heard mentioned a little LED SWR indicator
> circuit. Where can I find info on it?
>
> <http://www.extremezone.com/~nk7m/n7veswr.htm>

Date: Tue, 17 Jul 2001 19:21:29 -0400
From: "ss lyon" <sslyon@megalink.net>
To: "chat qrp" <qrp-l@lehigh.edu>
Subject: [102907] BIG KITE: Transporting, Beach Flying/operating...
Message-ID: <011d01c10f17\$37695940\$5d8798ce@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Have had a few questions re transporting the SCOTT SLED. (NJQRP web page)
Here's a reply and a suggestion re flying at the beach.

Just fold the kite and roll it up. Here's how:

1.) Remove the bridle to provide a cleaner roll up, and fold the tail pieces

back up over the kite.

2.) With the spars on the top side, fold the kite once, (ear to ear) with spars on the inside.

3.) Now that the outer two spars are together, fold the kite again on the line of the two spars.

4.) Roll the kite up on the OUTER spars. That ensures a full length "cover" on the outside of the roll.

5.) Secure with small bungee cords, etc., to maintain a compact, transportable tubular roll.

I lash mine to the outside of the car in this state and have no problems at all. With an SUV, etc, there should be no problem fitting it inside... unless of course you have plans for passionate moments.

Regarding low altitude flying at the beach -if it's required:

Air flow will be fairly laminar so kite should be able to fly stably at bit below 500'. Painting the kite fluorescent colors is great for lots of reasons... so are banners. I use the fluorescent 1" plastic ribbons used by surveyors, etc, (Home Depot) taped to the line every 50'. Just remove them as you bring the kite down.

IMPORTANT:

If you'll be on the beach with no secure anchor, bring along a 5 gal. drywall bucket, NOT SMALLER. Dig a hole, put the bucket in and fill it/bury it, except for the handle. Tie a short length of good rope to the handle and use that to anchor your kite. If you don't bury the bucket, the kite WILL pull it over, dump it.... and take off. Maybe clip somebody on the way down the beach. The rope is visible to passers by on the beach, thus not likely to be a hazard. Note that the anchor point will be quite a distance from the antenna attachment/drop point, so it's important that folks aren't tripping over it. Select your operating location with these factors in mind.

Keep us posted on your experiences!!

72 / 73,

"Seab" Lyon - AA1MY
Bethel, ME 04217 USA
FN44nj

Date: Tue, 17 Jul 2001 16:27:12 -0700

From: Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>

To: "'lhlousek@nvhbell.net'" <lhlousek@nvhbell.net>

Cc: "QRPL (E-mail)" <qrp-l@lehigh.edu>

Subject: [102908] Re: Half wave end fed question and LED SWR meter???

Message-ID: <1D74B9231259D511B1AA0002B32C2896150AFA@az10exm06.sat.mot.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

>Also. I've seen around and heard mentioned a little LED SWR indicator
>circuit. Where can I find info on it?

The original LED SWR bridge schematic is on Bob Hightower's (NK7M)
web page. There have been several variations since these first
circuits.

The second diode, the 1N34a is not needed. Some folks could never
get the LED to go completely out. This was traced to transmitter
harmonics which were not being matched.

Bob's site is:

<http://www.extremezone.com/~nk7m/>

The LED SWR bridge is at:

<http://www.extremezone.com/~nk7m/n7veswr.htm>

- Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions

Date: Tue, 17 Jul 2001 16:27:02 -0700
From: <schoon@amgt.com>
To: <qrp-1@Lehigh.EDU>, <sslyon@megalink.net>
Subject: [102909] RE: BIG KITE: Transporting, Beach Flying/operating...
Message-ID: <c=US%a=%p=American_Geotech%l=AG-CALCITE-BD-010717232702Z-1709@ag-basalt-pxy.amgt.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

>>all. With an SUV, etc, there should be no problem fitting it inside...
>>unless of course you have plans for passionate moments.

Unless you're underneath it! :)

>

>Note that the anchor point will be quite a distance from the
>antenna attachment/drop point, so it's important that folks aren't tripping
>over it. Select your operating location with these factors in mind.

>

Also keep in mind that you could be burying the bucket when the tide is

low.... When the tide rises, your bucket could be underwater! That would make it fun trying to dig out of the surf!

>.mark
>

Date: Tue, 17 Jul 2001 17:38:40 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-l@lehigh.edu
Subject: [102910] Color me back - from CO
Message-ID: <Pine.SUN.4.10.10107171714410.28948-1000000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

Had a really great time at the Northern Colorado SuperFest, held at the Laramie County Fair Grounds in Loveland, CO (not Longmont as I posted last week - the difference between Longmont and Loveland was very carefully explained to me by the locals -hi).

Rod N0RC and Jerry W0MC did a great job putting together the QRP activities and organizing the various talks, most of which had a general appeal beyond just QRP and thus well attended. The table with several K1's, K2's, IC-718's, and other homebrew equipment was well surrounded most of the day, as was the CQC table with their rigs, as so many hams found the "QRP rigs" to be very interesting and of course noting how much building *is* still going on. Jerry's 718 was the first one I had seen in the flesh. Even with his auto-antenna tuner box mounted to it, it was still a very nice, compact station to hold in your hands. Neat.

As always, I wish I could remember the names and calls of everyone I met, but impossible with the state of my grey matter lately :-). Several local QRPers approached me to discuss things, such as the current state of QRP-L ... always a reminder of how this group reaches a handful of QRPers no matter where you are. Nice to meet Dick Snyder, president of CQC and a few others manning their table with plenty of good PR for the hobby and some neat photos of their Field Day setup. Nice. CQC has been a leading scorer for FD with some energetic people and notable ops. It was also interesting meeting so many hams that work in the area at H-P, Agilent Technologies, NIST (WWV), NOAA (the solar people), etc.

The QRP presence and attendance of the forums made quite an impression on the overall hamfest and officials, demonstrating the excellent job Rod and Jerry (and probably a few others) worked at putting it together. Thanks to all for the invitation. It was great meeting you all and I've got it

pencilled in to return next year. Except PLEASE do something about that I-25 traffic getting through Denver. Between the traffic and downpours and hail, I remembered what traffic and weather is like -hi.

Thanks again to all,
72, Paul NA5N

Date: Tue, 17 Jul 2001 18:38:24 -0500
From: "Brian Murrey" <bmmurrey@amexol.net>
To: "QRP-L" <qrp-l@lehigh.edu>, "pigs" <fpqrp-l@mpna.com>
Subject: [102911] WBR
Message-ID: <005701c10f19\$9314d6a0\$46532bd1@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ok we've been discussing a bit about the WBR receiver in the August QST. I have written the author to have him explain the boo boo in the schematic versus parts list.

But I have another issue, you peeps can help me with.

The WBR wants a T68-6 with 28 turns of #22

I don't have any T68-6 and my torroid king doesn't have any either. I do have a T50-6 though.

According to the handy dandy Paul Harden databook, the 68-6 makes 47 uH per 100 turns and the 50-6 makes 46 uH per 100 turns.

So If I use my T50-6 with say, 35 turns instead of 28, do you think I'll be around the 3.7 uH the WBR project is calling for? The data book says 25 turns of #22 on a T50-6 will make 2.6 uH...so would it be safe to figure that 35 would make 3.7 uH?

73

=====
KB9BVN NORCAL 2792 FISTS 5695 QRP-L 1540 QRP-ARCI 10223
39.558 N 86.095 W Johnson Co., Indiana
GRID: EM69WN - Ten Tec Scout - Attic Dipole - 5w
Member of the American Radio Relay League - SOC #400

FISTS Century Club #764/#24 QRP - Flying PIG QRP #-57

Date: Tue, 17 Jul 2001 16:32:32 -0800
From: anthony@pacinfosb.com
To: qrp-1@lehigh.edu
Subject: [102912] Half wave end fed question
Message-ID: <Chameleon.995414295.Anthony@PID038>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; CHARSET=ISO-8859-1

I wish a few more folks with experience and theoretical background would weigh in on the need for a ground beneath an end fed half wave.

One of the original applications was the Zeppelin antenna, which of course had no ground. Do land-based Zepps need a ground? J-poles are EFHW's, but of course they have that little transmission line section that could be construed as a counterpoise.

My own experience with the end-fed 50ft wire I am now using as a temporary antenna at my new home has been interesting. I feed it with about 10ft of twisted pair made from teflon insulated hookup wire. It works much better without a ground or counterpoise. I use it on 40m and 20m, mostly. If I hook up the counterpoise, I have to retune and the received signal strength goes down and it is quite a bit harder to make contacts. My conclusion is that an end-fed wire worked against ground is a very different sort of antenna that one not worked against ground. I understand that reaching this conclusion was quite a jump. Please refute. This antenna was originally fed with a single wire, making it about a 60ft end fed random wire. I worked it against a 20ft counterpoise with poor results. I don't exactly know why, as I have had better luck with very similar setups. When I replaced the single wire feed with the two wire transmission line now in use, there was a noticeable improvement in received signal strength on 40m, and a very dramatic increase on 20m. That's for the case with the counterpoise disconnected. I know this isn't a well recommended setup, but it was one of those "what the heck" things.

If a center-fed wire needs no ground, but an end-fed one does, how about one fed off-center? Does it need more ground as you move the feedpoint toward the end? If you need no ground with center feed, at which point do you start needing a ground as you move the feed point toward the end?

73, WN6Q

Anthony Felino, Pacific Information Design
email: anthony@pacinfosb.com
telephone: (805) 730 1565, x25

Date: Wed, 18 Jul 2001 02:15:04 +0200
From: "Ingo DK3RED" <dk3red@t-online.de>
To: <ea5xq@qsl.net>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [102913] Re: Information about MFE201
Message-ID: <005001c10f1e\$b3a42880\$2d8f01d9@ingo>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello Juan,

> Does anyone know how to find the features and the identification of
> the legs for the MFE201 MOSFET?

<http://members.nbci.com/cbradiomods/transistors/fettransistors.html>

> I will appreciate any help on that, by the way, is there any way to
> look for such kind of information on Internet?

A good source for data sheets is www.questlink.com .
If you do not found it there looking around with www.ferretsoft.com .

Hasta luego y 72 de Ingo, DK3RED

E-Mail: dk3red@qsl.net - Homepage: www.qsl.net/dk3red

Date: Tue, 17 Jul 2001 19:35:03 -0500
From: "Tony Parks" <robert.parks11@gte.net>
To: <qrp-1@Lehigh.EDU>
Subject: [102914] Cub Fox KB9YIG final(?) log
Message-ID: <00c901c10f21\$7d608720\$92d3243f@3dse0>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello fellow hounds,
Thanks for the corrections several sent recently. This will be the last
chance for any additional corrections.

73,
Tony
KB9YIG

TIME	CALL	RST	RST	STATE	SPC	PWR
					SENT	RCV
0155	WOMC	329	339	CO	JERRY	5W
0201	W5YR	559	559	TX	GEORGE	5W
0202	K0EVZ	559	589	ND	DOC	5W
0205	W6ABC	559	559	CA	JACK	5W
0207	KV4EE/5	559	559	OK	CRAIG	5W
0210	AG0T	559	559	ND	TODD	300MW
0211	K4GT	559	559	GA	JIM	5W
0214	WA7SPY	559	559	CA	GLENN	5W
0217	KD5IVP	559	359	??	PAUL	3W
0221	KE6RS	559	559	CA	RON	5W
0223	N6XG	559	579	CA	WALT	200MW
0225	W0CH	559	579	MO	DAVE	2W
0226	KB7WW	559	559	OR	ART	5W
0227	KK5LD	559	559	TX	DAN	5W
0229	K4FB	559	579	FL	PAUL	5W
0230	VA6RF	559	559	AB	EARL	5W
0233	K7FD	559	579	OR	JOHN	5W
0234	NF0R	559	579	MO	DAVE	4W
0238	N5IB	559	559	AR	JIM	5W
0241	KC1FB	559	559	CT	JIM	3W
0245	KJ0C	559	579	MO	JIM	5W
0248	KI0II	559	579	CO	RON	1W
0255	W9UQB/7	559	559	AZ	MIKE	5W
0258	AA7EQ	559	559	AZ	BOB	5W
0302	KG4FSN	559	559	FL	JUAN	4W
0306	KD5IJT	559	559	AL	DOUG	10W
0310	NB0W	559	559	NE	SCOTT	2W
0323	KA5MVV	559	579	NE	JACK	100W
0331	VE5RC	559	599	SK	BRUCE	5W
0347	W3CD	559	339	CA	BOB	5W
0355	W5JAY	559	599	AR	JAY	1W
0400	KB9YIG	559		IN	TONY	5W

Date: Tue, 17 Jul 2001 18:36:36 -0700
From: lhlousek <lhlousek@nvhbell.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [102915] Re: Half wave end fed question and LED SWR meter???
Message-ID: <022b01c10f2a\$15ed4980\$650dfea9@nvhbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Thanks to everyone who sent me advice and links on end fed 1/2 wave antennas and LED SWR indicators. I'm including all the links here for anybody that may be interested. Les Moxon discusses the end fed 1/2 wave wire in his book HF Antennas for All Locations and has info there regarding grounding, counterpoises etc..

I noticed in the descriptions of the matching network (tank circuit) all but one use toroids and some use a separate winding for the primary and others use an auto transformer arrangement. Any pros and cons of air-wound vs toroids and auto vs isolated?

Lou W7DZN

LINKS:

http://www.natworld.com/ars/pages/back_issues/1998_text/0998_text/bright.html
<http://www.g3ycc.karoo.net/endfed2.html>
<http://www.geocities.com/aa5tb/efha.html>
<http://www.g3ycc.karoo.net/endfed.htm>
http://www.natworld.com/ars/pages/back_issues/2000_text/0100_text/film.html
http://www.qsl.net/w0ch/field_antenna.htm
http://www.qsl.net/g3vgr/hw_ant.html
<http://www.extremezone.com/~nk7m/n7veswr.htm>
http://www.njqrp.org/Rainbow/rb_home.html

Date: Tue, 17 Jul 2001 21:44:09 -0400
From: adamvaz@palm.net (Adam Vazquez)
To: qrp-1@Lehigh.EDU
Subject: [102916] [QuickReview] Maldol 10M Antenna for FT-817
Message-ID: <GGNBHM00.EZ7@mo130uhou.palm.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello from Adam Kb2jpd

I purchased the Maldol 10M whip originally designed for the FT-817.
I use it for my Mizuho 10M and a new Korean-made Titan 10M SSB/FM/AM
handheld.

It is pricey (\$45 US)but it is a great performer.The steel whip is
constructed well and Receives well even w/o the recommended
counterpose. It is the only 10M antenna I can use indoors to monitor 29
FM and USB in the Tech portion.
When doing a quick A/B antenna comparison, the Maldol stands out.

If you are looking for a small aerial that performs very well, try out
the Maldol.

73 Adam

Date: Tue, 17 Jul 2001 21:49:01 -0400
From: "David Porter" <aa3ur@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [102917] Cub Fox AA3UR Thunderstorm
Message-ID: <00bc01c10f2b\$d2478f40\$927ba8c0@jamison1.pa.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Hunters,

There is a thunderstorm nearby with lots of strikes, about 1 every 5
seconds. Nothing real close, but it may delay my start. As soon as it
blows over, I'll be there.

David Porter
aa3ur@home.com
AA3UR

Date: Tue, 17 Jul 2001 22:03:27 -0400
From: "David Porter" <aa3ur@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [102918] Cub Fox AA3UR Equipment Problems
Message-ID: <00c601c10f2d\$d686fbc0\$927ba8c0@jamison1.pa.home.com>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Hunters,
I have tried putting my DSW on the air and all I get are strings of dits,
even without a key. I'll keep troubleshooting and let you know my progress.

David Porter
aa3ur@home.com
AA3UR

Date: Wed, 18 Jul 2001 02:21:18 -0000
From: "Bob Cooley" <ad4mz@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [102919] Help to locate OHR QRP SPIRIT Manual
Message-ID: <F1864xDh9vXsFFsAitV00010874@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Please help me locate a copy of the manual for the Oak Hills research QRP
Spirit rig. I will gladly reimburse you for copying and postage.

Thanks,

Bob
AD4MZ

ad4mz@hotmail.com

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

Date: Tue, 17 Jul 2001 22:36:59 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [102920] Some sites to bookmark
Message-ID: <b9.10d3dddb.2886504b@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

If you have not done so yet, you need to bookmark the following sites for
future reference. A gold mine of information here:

<http://www.qsl.net/wd8rif/archives.htm>

<http://www.chem.hawaii.edu/uham/>

Alan KB7MBI

Date: Tue, 17 Jul 2001 22:40:45 +0000
From: "Caitlyn M. Martin" <ku4qd@qsl.net>
To: w6toy@erols.com
Cc: qrp-1@Lehigh.EDU
Subject: [102921] Re: The FT-817's niche
Message-ID: <20010717224045.56568ac4.ku4qd@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

On Mon, 16 Jul 2001 22:42:54 -0400
Bruce Muscolino <w6toy@erols.com> wrote:

> I think the FT-817 is a great concept. It sure is worth talking
> about. I don't really need another 5 watt radio though. IF I was going
> for a super small radio I would look at the Icom IC706 <arl IIG> At
> least in a mobile setting I can be hears most of eh time, and it can be
> turned doew to 5watts with the ALC.

If someone likes to operate QRP/portable (what the FT-817 is designed for) it makes a whole lot more sense than an IC-706IIG. It's less than half the size, less than half the weight, can be fully self-contained and run on internal batteries, and has lower power consumption. It seems to me that you probably aren't the target audience for the rig. Besides, some of us choose to run QRP *exclusively*.

72,
Caity
KU4QD

Date: Tue, 17 Jul 2001 22:39:58 -0400
From: "David Porter" <aa3ur@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [102922] Cub Fox AA3UR NOT
Message-ID: <00db01c10f32\$effe81e0\$927ba8c0@jamison1.pa.home.com>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Hunters,
It looks like I'm out of luck for the time being. No change in the rig, and no backup.

With regrets,

David Porter
aa3ur@home.com
AA3UR

Date: Tue, 17 Jul 2001 20:48:31 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: David Porter <aa3ur@home.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [102923] Re: Cub Fox AA3UR Equipment Problems
Message-ID: <Pine.LNX.4.33.0107172046270.3039-100000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi David, that explains why w1aw is 50 DB over s-9 from Conn. and you are zip from NJ...:-) I did manage to work your co-fox Mike on the first call from my portable antenna! That w3ff dipole at 10 feet really works!

On Tue, 17 Jul 2001, David Porter wrote:

> Hi Hunters,
> I have tried putting my DSW on the air and all I get are strings of dits,
> even without a key. I'll keep troubleshooting and let you know my progress.
>
> David Porter
> aa3ur@home.com
> AA3UR
>
>

--
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 17 Jul 2001 20:50:50 -0600
From: "Rod Cerkoney, N0RC" <rod@n0rc.com>
To: "Elecrafft-list" <elecraft@qth.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, "club-pre list admin" <majordomo@club-pre.org>
Subject: [102924] QRP-ACRI HB Sprint with K1 & NiMH batts
Message-ID: <038b01c10f34\$74dc3870\$6401a8c0@c919125b>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks,

Operated 3 of the 4 hours in the HB Sprint. K1@2.5W into Attic Doublet.

27 QSOs	34 pts
X	17 SPCs
X	7 PWR Mult.
+	5000 HB XCVR bonus

TOTAL 9046

I operated a casual S&P mixed with intervals of calling CQ every 6 sec, on 20m only. When not operating the K1 was left on.

When I started, the battery pack was fully charged, ~10.6 VDC, (8, 1500mAh NiMH batts from Batteries Plus) When I finished the Sprint the battery pack measured 9.2 VDC key-down, ~9.8 key-up.

After listening to all the battery discussions I'm sticking with 1500-1600mAh NiMH cells. Their size is just right and the cost is reasonable. For times when there is concern about having enough power, I'll take along an extra set. (A good idea in almost any situation) Overall, for my operating style, and I expect many others, this seems to be a "optimal" solution: a balance size, performance, capacity, cost...etc.

Next time the opportunity arises, I'll try 4 hours of operation at 3W. Just to test things a bit more "at the margin".

73, Rod N0RC
Ft Collins, CO

Date: Tue, 17 Jul 2001 19:58:37 -0700
From: <schoon@amgt.com>
To: <qrp-1@Lehigh.EDU>, <k5di@zianet.com>
Subject: [102925] RE: Cub Fox AA3UR Equipment Problems
Message-ID: <c=US%a=_%p=American_Geotech%l=AG-CALCITE-BD-010718025837Z-1717@ag-basalt-pxy.amgt.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Does Murphy QSL?? :)

.mark

>-----
>From: Karl F. Larsen[SMTP:k5di@zianet.com]
>Sent: Tuesday, July 17, 2001 7:48 PM
>To: Low Power Amateur Radio Discussion
>Subject: Re: Cub Fox AA3UR Equipment Problems
>
>
>Hi David, that explains why w1aw is 50 DB over s-9 from Conn. and you are
>zip from NJ...:-) I did manage to work your co-fox Mike on the first call
>from my portable antenna! That w3ff dipole at 10 feet really works!
>
>On Tue, 17 Jul 2001, David Porter wrote:
>
>> Hi Hunters,
>> I have tried putting my DSW on the air and all I get are strings of dits,
>> even without a key. I'll keep troubleshooting and let you know my
>>progress.
>>
>> David Porter
>> aa3ur@home.com
>> AA3UR
>>
>>
>
>--
>Yours Truly,
>
> - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
>
>
>

Date: Tue, 17 Jul 2001 22:02:36 -0500
From: Scott McCullough <mcwood@cornhusker.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [102926] Coil, tuner, or vee?
Message-ID: <200107180301.WAA31935@go.bigred.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Hi,

I'm looking for antenna advice.

I have a 40' mast that I can put up quite quickly. It's not for backpacking by any means but works great in the van. It's made of Army surplus camo cover support poles. They are aluminium, about 40" long each, and about the diameter of 1 1/2" PVC. My dad welded me up a base that I can park on and hinge the mast up and then pull out three guy ropes and stake it down. That part works slick.

Today, I put together a support to hold two 20' Black Widow fiberglass poles horizontal in a dipole fashion on top of the mast. I have a 20 meter dipole that I can tape to the poles and work just fine.

My question is on 40 meters. Without building all of these and doing extensive research, I'm wondering what you think would work best on 40m.

1. 40 foot dipole (20'/side) and feed it with a tuner.
2. Make coils on PVC that will slip over the poles at the centers and work to get them resonate on 40. (Kind of like two SLV's in a dipole fashion.)
3. A full size inverted Vee . . . skip the poles and just hook the point of the vee on the top of the mast and stake the ends to the ground . . . (which is what I did for field day).

I'm guessing that a full size inverted vee would be a better performer than a shortened anything . . . even with the ends of the vee 20' or so off the ground.

If you have any thoughts on this, I'd love to hear them. 8^)

Thanks,

Scott ~ nb0w
nb0w@mcculloughs.org

Date: Tue, 17 Jul 2001 22:12:45 -0500
From: "Len Revelle" <lenrev@ameritech.net>
To: <k5di@zianet.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [102927] RE: Cub Fox AA3UR Equipment Problems
Message-ID: <JDEJKNHICDBPHBFOCEJMCEHLCDAALenrev@ameritech.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Just got my 817 and no regrets. I've had a TS680 mobile for three years and realized I rarely used it. Took it out to reclaim the floor space in the van. The 817 will work nicely with mobile antennae and a solid state PA if I want to return to that kind of operation.

Len Revelle N9IJ
AMA 60055 LSF 7492
lenrev@ameritech.net
lrevelle@palm.net

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of Karl F. Larsen
Sent: Tuesday, July 17, 2001 9:49 PM
To: Low Power Amateur Radio Discussion
Subject: Re: Cub Fox AA3UR Equipment Problems

Hi David, that explains why w1aw is 50 DB over s-9 from Conn. and you are zip from NJ...:-) I did manage to work your co-fox Mike on the first call from my portable antenna! That w3ff dipole at 10 feet really works!

On Tue, 17 Jul 2001, David Porter wrote:

> Hi Hunters,
> I have tried putting my DSW on the air and all I get are strings of dits,
> even without a key. I'll keep troubleshooting and let you know my
progress.
>
> David Porter
> aa3ur@home.com

> AA3UR

>

>

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 17 Jul 2001 23:14:01 -0400
From: Paul Womble <pwomble1@tampabay.rr.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [102928] Cub Fox?
Message-ID: <3B54FEF9.4E9B565C@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Anyone hearing KD5KXF? I heard a hound or two early, around
14.060.5...but now nothing.

Paul K4FB

Date: Tue, 17 Jul 2001 21:18:53 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <qrp-l@lehigh.edu>
Cc: <W3FF@aol.com>
Subject: [102929] W3FF Antenna and Fox Hunting
Message-ID: <Pine.LNX.4.33.0107172107400.3039-1000000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

It's too bad AA3UR had rig trouble cuz I wanted to see if my new
copy of the W3FF portable antenna would get that far with 5 watts. But as
it worked out it was a good test.

I found Mike KD5KXF right near 14060, which is as close as you can
tell with a 25 year old Argonaut. I was running this rig from a 4.5
amp hour gell cell with my CMOS keyer and tiny keypad. Called him twice
with my call and he came right back! I could just copy him, serious weak

but sent my numbers and he did tunes 72.

So the antenna is REAL. It does work with QRP contests like FOX Hunts and I will be using it many times over the next week before we take it to the Fort Tuthill QRP Hamfest. I have promised to be near 14.060 at 1700Z on Thursday, Friday and Saturday with the dipole pointed east/west.

I heard K0EVZ work Mike and Doc was 599+30 on the portable antenna. Never heard Doc any loader. This is an antenna that is 10 feet in the air, and about 6 feet long! A real small package that sure works on 20 CW...:-)

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 17 Jul 2001 22:21:26 -0500
From: Randy & Cara Randall <crrandal@seidata.com>
To: unlisted-recipients;; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [102930] Micro Wankel rotary engine was Re: Portable Power Generator
Message-ID: <3B5500B6.C7755257@seidata.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I bet this one isn't cheap either, yet!!!! Goto:

http://www.berkeley.edu/news/media/releases/2001/04/02_engin.html

and:

<http://www.me.berkeley.edu/cpl/memsinfo.pdf>

It is a Wankel rotary engine the size of a penny!!!
This thing is amazing!! I hope that they can get it to work
in the real world. Neatest thing I have seen in years.

Randy KB8AS0

Mike Yetsko wrote:

> I believe he means an O.S. MAX engine.
>
> Some people consider them the ultimate in R/C airplane engines.
>
> They aren't cheap.
>
> Mike
>
> ----- Original Message -----
> From: <brownh@hartford-hwp.com>
>
> > Tim,
> >
> > > I can not take credit for this but I saw this on a web site and have
> > > since lost the URL. A 4 stroke .031 OS engine mated to a brushless
> > > DC motor used as a generator.
> >
> > Would you be kind enough to expand on this for me? Is this a model
> > aircraft engine? What is "OS?" What kind of power out are we talking
> > about here?
> >
> > --
> > Haines Brown
> > brownh@hartford-hwp.com
> > www.hartford-hwp.com
> > KB1GRM
> >
> >

--

"We make way for the man who boldly pushes past us." - C.N. Bovee

Date: Tue, 17 Jul 2001 23:26:14 -0400
From: "David Porter" <aa3ur@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [102931] Cub Fox AA3UR Yesssss!
Message-ID: <00eb01c10f39\$668306a0\$927ba8c0@jamison1.pa.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hi Hunters,

I'm on at 14.040

David Porter
aa3ur@home.com
AA3UR

Date: Tue, 17 Jul 2001 22:35:19 -0500
From: "Mike Malone" <mmalone@worldlogon.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [102932] Re: Cub Fox
Message-ID: <002601c10f3a\$ac01bf40\$7ef5a7cc@malonefamily>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Cub Fox KD5KXF is on 14.060 and is listening on same... where are the
hounds???
KD5KXF

Date: Tue, 17 Jul 2001 21:44:34 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: David Porter <aa3ur@home.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [102933] Re: Cub Fox AA3UR Yesssss!
Message-ID: <Pine.LNX.4.33.0107172143300.3117-1000000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Think the band closed down David. I hear some strong guys but not calling
you on or near 14.040...sorry

On Tue, 17 Jul 2001, David Porter wrote:

> Hi Hunters,
>
> I'm on at 14.040

>
> David Porter
> aa3ur@home.com
> AA3UR
>
>

--
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 17 Jul 2001 23:43:34 -0400
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: ".QRP-L Discussion Group" <QRP-L@Lehigh.edu>, "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [102934] Anyone Heard Cub FOX Dave AA3UR?
Message-ID: <200107172343_MC3-D997-E549@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
charset=ISO-8859-1
Content-Disposition: inline

Gang:

Anyone heard Dave Da FOX AA3UR tonight? Been searching all over from 14.038-14.063.....but NADA here so far. Maybe the band is too long, as = I am hearing lots of EU and EEU in there.

73,
--Doc/K0EVZ

Date: Tue, 17 Jul 2001 23:43:33 -0400
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: ".QRP-L Discussion Group" <QRP-L@Lehigh.edu>
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [102935] Dual FOX Hunt Thursday evening
Message-ID: <200107172343_MC3-D997-E548@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;

charset=ISO-8859-1
Content-Disposition: inline

Gang:

Jim N5IB and I will be the Foxes on Thursday evening, July 19, 2001 (USA date). UTC time and date will be 0200-0400Z, 20 July 2001. Jim will be high, about 14.061-14.062. I will be low, about 14.055-14.057. We plan to hunt each other at 0300Z. We both want to work absolutely *everyone*, so hang in there. Let's hope everyone has good propagation.

So point your verticals for Jim at Baton Rouge, LA, and toward Bismarck, ND (central ND) for K0EVZ. Good luck one and all.

73,
--Doc/K0EVZ

Date: Tue, 17 Jul 2001 22:51:30 -0500
From: "George, W5YR" <w5yr@att.net>
To: aa3ur@home.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [102936] Re: Cub Fox AA3UR Yesssss!
Message-ID: <3B5507C2.22188F62@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sorry, David - not even a sniff here in North Texas.

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6

Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

David Porter wrote:

>
> Hi Hunters,
>
> I'm on at 14.040

Date: Tue, 17 Jul 2001 22:59:17 -0500
From: "George, W5YR" <w5yr@att.net>
To: mmalone@worldlogon.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [102937] Re: Cub Fox
Message-ID: <3B550995.7F844242@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sorry, Mike - but no joy up here. I heard a couple of guys working you and *thought* I faintly heard you for a character or two on 059.98 but just couldn't tell for sure. The band was very poor this evening although several DX stations were coming in well.

Also listened for David at 040 after he said he was on, but couldn't hear anything at all except a very chirpy LZ at about 039.8 calling CQ DX!

Hope you had some fun and excitement - you can tell us all about it Saturday at the NETXQRP meeting!

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6

Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

Mike Malone wrote:

>
> Cub Fox KD5KXF is on 14.060 and is listening on same... where are the
> hounds???
> KD5KXF

Date: Tue, 17 Jul 2001 23:07:03 -0500
From: Todd Enders <enders@bolshoi.cc.misu.nodak.edu>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [102938] FOX - No Cubs Tonight... :-(
Message-ID: <200107180407.AA00786@bolshoi.cc.misu.nodak.edu>
Content-Type: text/plain
Mime-Version: 1.0 (NeXT Mail 4.2mach_patches v148.2)

Didn't hear anything from either foxii at the start of the hunt.
Tuned around a long time before I heard Mike at near ESP level,

at about 14.060.5-ish. Lots of QRM here, along with crunchy QRN. QSB up and down. Heard *someone* send "AG0T K", but whether it was our friend fox or not, I couldn't tell you.

Kept scanning the mail, looking for word on the other fox, who ended up down due to weather and equipment until quite late. Found his post that he was QRV at 14.040, but tuning down there revealed nothing. Propagation very strange, long and running East. Worked a guy in MD just before I went searching for David, 559 @ 4W, although lots of QSB at this end. Nothing heard from David. Interesting to note the guy in MD gave me a 559 report @ 300 mW, and said I was solid copy. Go figure. :-)

I heard several LZs and LYs, and heard at least one ZA at quite strong levels earlier, but I think the band is shifting again. Oh well, better luck next time, maybe! :-)

72/73,

Todd, AG0T

Date: Wed, 18 Jul 2001 00:23:46 -0400
From: "David Porter" <aa3ur@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [102939] Cub Fox Log AA3UR (Preliminary)
Message-ID: <010901c10f41\$70676640\$927ba8c0@jamison1.pa.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Wow! What a fight tonight. First the storm, then the rig, a misguided phone call to the designer that was rebuffed by his wife (my sincerest apologies), realization that my proposed fix to swap PIC chips with my DSW-40 wouldn't work because of different encoders, finally realizing that the PIC internal pull up on the dit pin wasn't doing its job, tacking a pull-up resistor from pin 14 to pin 11, rechecking everything twice, and finally, I was on the air.

I told everyone 14.040, but was actually at 14.042-14.047. I missed the call on the first contact at 0338, sorry Jim. I blew the CQ horn for nearly 20 minutes when the following happened:

Time	Call	RST	SPC	Name	Pwr
0355	K0EVZ	55N	NB	DOC	5

0356 K4FB 53N FL PAUL 5
0359 VE1MT 33N NOVA SCOTIA LAYTON 5

Thanks again to everyone who tried. My apologies to those who didn't get me and to those who I offended late at night. Let's hope that next time is better! Despite everything, I had a great time (in retrospect).

72,

David Porter
aa3ur@home.com
AA3UR

Date: Tue, 17 Jul 2001 22:37:27 -0600
From: "Rod Cercone, N0RC" <rod@n0rc.com>
To: "Club-pre" <members@club-pre.org>, "Elecraft-list" <elecraft@qth.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [102940] Re: QRP-ACRI HB Sprint with K1 & NiMH batts
Message-ID: <042e01c10f43\$59ef8760\$6401a8c0@c919125b>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

OOPS

----- Original Message -----
From: "Rod Cercone, N0RC" <rod@n0rc.com>
To: "Club-pre" <members@club-pre.org>
Sent: Tuesday, July 17, 2001 9:37 PM
Subject: QRP-ACRI HB Sprint with K1 & NiMH batts

>
> Folks,
>
> Operated 3 of the 4 hours in the HB Sprint. K1@2.5W into Attic
> Doublet.
>
> 27 QSOs 34 pts

S/B 27 QSOs 114 pts

> X 17 SPCs
> X 7 PWR Mult.

> + 5000 HB XCVR bonus
>

TOTAL 18566

Must not be recovered 100% from long hours of hamfest activity.

Word of advice: never volunteer to help run the hamfest, drive a sub-event like the QRP corner, give a presentation, and do overnight security, in the same event--you just can't do all that on 2 hours of sleep. ;-Z

73, Rod N0RC
Ft Collins, CO

Date: Wed, 18 Jul 2001 05:54:20 -0400
From: Bill Meara <n2cqr@clix.pt>
To: anthony@pacinfosb.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [102941] Re: Half wave end fed question
Message-ID: <3.0.6.16.20010718055420.2ddf09a8@pop.clix.pt>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 04:32 PM 7/17/01 -0800, anthony@pacinfosb.com wrote:
>I wish a few more folks with experience and theoretical
>background would weigh in on the need for a ground beneath
>an end fed half wave.

>If a center-fed wire needs no ground, but an end-fed one does, how
>about one fed off-center? Does it need more ground as you move the
>feedpoint toward the end? If you need no ground with center feed,
>at which point do you start needing a ground as you move the feed
>point toward the end?

That's a great way of framing the question Anthony. I too have never understood the need for ground and/or counterpoise with an end fed half wave. And I too have successfully used them with neither.

At one point I suspected that the short wire that was being presented as a counterpoise was actually just serving as a short extension of the antenna, moving the feed point a bit off the end, lowering the input impedance a little and making it easier to get a match.

73 de CU2JL (aka N2CQR)
Bill Meara

Sao Miguel Island,
The Azores, Portugal
<http://planeta.clix.pt/n2cqr>

Date: Wed, 18 Jul 2001 07:45:33 -0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: crrandal@seidata.com, qrp-1@Lehigh.EDU
Subject: [102942] Re: Micro Wankel rotary engine was Re: Portable Power Generator
Message-ID: <F71aYFkuutSgc0rBLSA00000135@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>
>I bet this one isn't cheap either, yet!!!! Goto:

The Wankel failed largely because the rotor seals were found to wear rapidly. It would be interesting to see how this problem has been overcome in this new engine.

Leon

--
Leon Heller, G1HSM
Tel: +44 1327 359058
Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Date: Wed, 18 Jul 2001 04:50:26 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: "Caitlyn M. Martin" <ku4qd@qsl.net>
Cc: qrp-1@lehigh.edu
Subject: [102943] Re: The FT-817's niche
Message-ID: <3B554DD2.8F4EC1B@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Caity,

Well I guess the last 20 years of running QRP 95% of the time don't count for anything! Having been one of the first to own and operate a TS-120V way back in 1978 apparently means I don't like QRP. Being of of the first to buy and use a TS-130V, way back in 1980 apparently does not mean anything.

Ms. Martin, I am a ham radio operator. I believe in using the minimum power necessary to make the QSO. I have adequately demonstrated QRP with DXCC, WAS, and, of course WAC, plus numerous contest placing. Please refrain from telling me (and the world) that I don't like to run low power!

My comments were made on the basis that I also fully believe there are times when blasting away at 5 watts does not make for reliable QSOs. Not everyone cares if they can work the guy in the next state, they may want to work DX. They may also want to work in a contest. They may find they need higher power to get out. Power, unless it is used without regard to and for others is not a bad thing.

The FT-817 has found a niche market, Frankly so has the D2! Use whatever you want to make your ham radio day. Please refrain from pontificating about how much you like QRP, you may find you are preaching to the choir!

73

Date: Wed, 18 Jul 2001 05:06:29 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: anthony@pacinfosb.com
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [102944] Re: Half wave end fed question
Message-ID: <3B555195.B7B7ECEC@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well now, someone who has proven the theory wrong for us all!

A Zeppelin is a very large metallic object. Don't you supplies that that constitutes an RF ground to the antenna? Also, the transmission situation is somewhat different. I doubt there were many messages sent from the Zeppelin to its base unless the range was fairly short.

A counterpoise is and can be any large object. Consider the handi-talkie, your body provides all the counterpoise it needs.

The best results with counterpoises are when they are resonant quarter waves. This can be changed with the use of a tuning circuit. It is also an function of the quality of the actual ground under the counterpoise. If it is outside and laying on the ground it can be shorter because of capacity effects.

A Pole is not an end fed random wire. Characterizing it as such is like saying there is no difference between a beam and a dipole. Just because it is commonly made from twin lead does not make an end fed wire.

You may have success with your wire fed with a twisted pair. Unless both sides of the pair are connected together, one side may be acting as a counterpoise. The original Zepp was constructed this way, only it used parallel feeders.

If you don't notice an improvement when using a counterpoise with an end fed wire, there must be a reason, but the reason is not that the antenna does not need a ground to operate. It can't complete the RF circuit without one! Read your antenna books!

73

Date: Wed, 18 Jul 2001 05:18:08 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: adamvaz@palm.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [102945] Re: [QuickReview] Maldol 10M Antenna for FT-817
Message-ID: <3B555450.4A361FE@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Adam,

You should note that your evaluation is principally based on receiving, not transmitting. Frankly almost any wire will give the same results in a receiving test. The whip may be more convenient but the fact is that receivers are very forgiving of impedance matching and often have more gain than needed!

I am sure the Maldol antenna works well for transmitting with their recommended counterpoise. However, your report only said receiving!

73

Date: Wed, 18 Jul 2001 05:36:17 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: mcwood@cornhusker.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [102946] Re: Coil, tuner, or vee?
Message-ID: <3B555891.93EDB176@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Scott,

I had a friend who used a similar sort of mast when selling receivers at hamfests. In his case he used PVC. He had a base made up that the PVC pole would slip over and he would drive his truck up on the base for a steady support. He used Hamsticks for his dipole.

I have to ask this question. Could you not use the pole as a vertical? You say it's all aluminum. This way you could use any kind of loading coils, wound on PVC that just slipped over it.

A 40 meter dipole is about 33 feet on each side. It's total length is only about 66 feet. Why do you want 120 feet per side?

I can think of several supporting methods that are lighter than two SD-20 and probably cost less as well! Why use SD-20;s in this application?

73

Date: Wed, 18 Jul 2001 05:43:28 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: mcwood@cornhusker.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [102947] Re: Coil, tuner, or vee?
Message-ID: <3B555A40.54F7E7B8@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Scorr,

On rereading your message, I now see my failing eyes mistook (20) for

120! My mistake.

Would a full sized inverted vee be a better bet? Probably simply because the pattern is more omni-directional. Full size beats short anytime! I wouldn't worry too much about the ends being close to the ground. I had one where the ends were within 6 feet of the ground and it worked well.

A 20 foot on a side dipole is about 3/4 size on 40 meters. I have built and used a 20 foot helically wound dipole on 40. It was a very successful antenna though I wouldn't recommend it to just anyone! If you used a plain wire dipole 40 feet overall, and fed it with some open wire line, it probably would work. The issue would be the pattern. If you were happy wit it, OK.

73

Date: Wed, 18 Jul 2001 05:56:07 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: n2cqr@clix.pt
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [102948] Re: Half wave end fed question
Message-ID: <3B555D37.DF0B4847@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ground (or the other half of the RF circuit) is present in any center (or off center) fed antenna. That's what the other half of the antenna does! Whether you feed in the center or odd center, the real difference is in the impedance you will see.

Where is the other half of the RF circuit in an end fed wire?
Traditional antenna theory says you have to provide it Think about it..

73

Date: Wed, 18 Jul 2001 10:26:53 -0000
From: "Dennis Ponsness" <wb0wao@hotmail.com>
To: njqrp@njqrp.org, qrp-l@Lehigh.EDU
Subject: [102949] ScQRPion SVSI,SOP Rx, Fireball torids?
Message-ID: <F255rYILoygXLsxpTlj00000218@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

OK gang, time for a couple of possibly simple ?'s....

1) Looking at the schematics for the ScQRPion SVSI and the Improved SVSI, it shows T1 as a T37-43 torid? According to the references I downloaded last nite, there is no such thing as a T37-43, there is however a FT37-43, could this be a typo on the schematics? I did not see a reference value for this component, so I couldn't check that way! Anyone have the low down on this?

2) Reading over the docs for the NJQRP Club SOP RX, the schematic shows a T3 in the RF Pre-Amp section (described as T1 in the installation instructions), but in the parts listing there is no mention of a T3. So, the ? is.. what kind of core is T3? Is it the same as T1, a T37-2?

3) Finally, checking over the docs for the Fireball 40 TX, in the optional T-R Switch section, the schematic shows a T37-2 with 50 (!) turns of #26. The installation instructions in the Fireball docs show 26 turns of wire and the instructions in the FB40 amp docs show 52 turns of #26. I am betting that the 26 turns is a typo (grin - we all make those..hi hi). The docs say that this is quite a bit of wire on this torid and that you will have to overlap the windings. So using the formulas and the data sheets, it looks like I can use a T50-2 with 47 turns and get the same 10.8 uh. Less winding and more room on the torid. Am I thinking correctly here, or am I way off base???

72/73

Dennis Ponsness - WB0WAO
EN84ij Iosco Cty, Mich.
WAC WAS DXCC VUCC WPX
NJ-QRP #329

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

Date: Wed, 18 Jul 2001 07:33:47 EDT
From: n5ib@juno.com
To: qrp-1@Lehigh.edu
Subject: [102950] FOX - N5IB Thursday 7/19
Message-ID: <20010718.062859.4647.0.n5ib@juno.com>

Sit! Stay! Howdy Hounds,

Catch me if you can. I'll be one of two foxii tomorrow night (Doc, K0EVZ

is the other). I shall trek to the QTH of fellow Cajun Thunder foxhunter Wayne, K5EOA, there to take advantage of his cloud of aluminum arrayed at 70 ft above Mother Earth.

Plan are for me to set up shop near 14062 +/- and for Doc to be near 14054 or so. I'll be using the K-2 (#1233) at 5 W along with the venerable and vintage J-38 and the traditional paper and pencil log. RIT will be invoked and I may listen above, below, and occasionally on my frequency. No need to drop your call more than once or twice, 'cause if I don't pick one out in 5 or 6 seconds I'll usually QRZ? again.

I'll be sending "yourcall RST LA JIM 5W yourcall BK" and either a "TU K" or "CQ FOX de N5IB" or "QRZ? K" will be the hound signal to call some more. I'll ask for fills if needed.

The log posting will be delayed a bit as this weekend is the Museum Ships Event and I'll be manning the USS Kidd Friday through Sunday. I'll send you some details about that event tomorrow. See the USS Salem ARC for info <<http://www.qsl.net/k1usn/event.html>>

Good luck in the hunt. I topped 90 on 40 m last winter, The goal is 100+ tomorrow.

72
Jim N5IB
Baton Rouge LA

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<http://dl.www.juno.com/get/tagj>.

Date: Wed, 18 Jul 2001 07:58:32 -0400
From: Tim ORourke <TORourke@KaiserFT.com>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [102951] FT-817 Comments
Message-ID: <910D8E9955E3D411B3AE00A0C9319CB80C6337@MAIL>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I have one and also a K2 and several K1's. We used one last weekend for a Mtn top expedition with my scout troop for VHF contest. Some observations: Worked great for any band, mode we needed it for, {I do have the CW filter}.

However we used an MFJ 9406 for most of the 6 meter contacts for one reason, we were solar power entire weekend and the MFJ is much more efficient than 817, 90 ma verses 400 ma receive, 1.8 amps verses 3 amps xmitt. Receive sensitivity and audio modulation about the same. Having to haul up larger batteries and solar panels to 6200' to keep 817 happy is no fun. I am not knocking the 817, I use it for many outings where I want one rig for several purposes, but if I am working DX or a contest on HF I take one of the K's. For a week long backpack trip I'll take a K1. If I am demonstrating many modes and bands etc I will take the 817 for convince. The 817 is a great do every thing gem, but sometimes there are better solutions. Next Mtn top expedition for VHF I am going to check out the MFJ 2 meter SSB rig with CW option and add CW to my 6 meter MFJ. Just MHO. .73 Tim O'Rourke KG4CHX

Date: Wed, 18 Jul 2001 06:01:02 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: "Wilford D. Lindsey" <70511.3041@compuserve.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [102952] Re: Dual FOX Hunt Thursday evening
Message-ID: <Pine.LNX.4.33.0107180558590.1129-100000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gads Doc, If your as strong thursday as you were last night we will work you first. It was crazy how loud you were and how weak Mike was. But I got him with my low portable antenna.

On Tue, 17 Jul 2001, Wilford D. Lindsey wrote:

> Gang:
>
> Jim N5IB and I will be the Foxes on Thursday evening, July 19, 2001 (USA
> date). UTC time and date will be 0200-0400Z, 20 July 2001. Jim will be
> high, about 14.061-14.062. I will be low, about 14.055-14.057. We plan to
> hunt each other at 0300Z. We both want to work absolutely *everyone*, so
> hang in there. Let's hope everyone has good propagation.
>
> So point your verticals for Jim at Baton Rouge, LA, and toward Bismarck, ND
> (central ND) for K0EVZ. Good luck one and all.
>
> 73,
> --Doc/K0EVZ
>

--
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Wed, 18 Jul 2001 08:16:12 -0400
From: John R Kirby <n3aaz-qrp@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [102953] Re: feedline WEIGHT
Message-ID: <20010718.081727.-140823.2.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

NO FEED LINE REQUIRED . . .

> The point that is being lost here . . .
> we are about lightweight antenna for
> field/backpacking/pedestrian mobile use
> it is weight ... every oz. not on your back
> is worth plenty!

How about a NO FEED LINE antenna system . . .

The all band portable antenna 'stuff' (below) is my work.
See THE >L< NETWORK REVISITED
in the Nor-Cal QRPP newsletter
(a few issues back),
for the schematic and figures or
e-mail me direct for an attachment.

Thanks again,
Doug (KI6DS), Bill (KD7S), L.B. (W4RNL),
73, John (N3AAZ)

>>>>>> START TEXT >>>>>>>

What do these terms have in common?

QRP, backpacking, efficiency, zero-weight feedline, low pass filter,
stealth, home brew, omni-directional, all band, tuner, and . . .

Answer . . . One inductor and one capacitor, the >L< Network

Figure 1 (e-mail me direct for an attachment "EXPORT -L- . gif") shows the no feedline, portable, long wire antenna system I used with much success a few years ago while camping in a pop-up. This setup will match most 100 foot long wire antenna configurations from 80 through 10 meters. Since the components are small, light, easy to pack and deploy this configuration also makes for an outstanding spare or emergency configuration.

The inductor is 21 turns of solid 18 AWG wound on a "stack" of three, Micrometals, RED (MIX 2), T94-2, powdered iron cores, with a "tap" placed every three turns (Figure 3). The capacitor is a 200 pico Farad variable. The antenna wire is a small roll of inexpensive, insulated, zip cord. You will need "alligator" clips and a tuning indicator. The earth ground system is several strands of zip cord in parallel. The ground rod just a common screwdriver with a vice-grip for hammer and wire clamp.

Feedline is not required (in Figure 1) because the >L< network is connected direct between transceiver and base (the feed point) of the antenna. The feedpoint of the long wire antenna is located inside the shack (camper, tent or sleeping bag).

The tuning indicator can take many forms. It is noteworthy to say, if it takes too long to adjust ANY antenna tuner, the "final RF amplifier" in your transmitter may be at risk to over heating. I suggest, install a 10 dB attenuator (figure 4) between the transmitter and tuner to help protect the PA transistor during the initial adjustment. The "attenuator" technique is NOT a guarantee. The safest method is reduced transmitter power and short (intermittent) "key down" adjustments. The attenuator is removed for final adjustment and QSOs.

The >L< Network

For the purpose of this discussion the term long wire antenna refers to a non resonant wire element that is either, straight line, zigzag, horizontal, vertical, or any combination, but always longer than a half wave at it's operating frequency. A counterpoise is not required. An earth ground helps.

The approximate half wave length in feet can be determined by dividing 468 by the operating frequency in MHz. Example, $\text{Length(ft)} = 468 / F(\text{MHz})$, a half wave at 7.04 MHz is approximately 66.5 feet.

How does the >L< network match a low impedance transmitter to high impedance long wire? Connect the coil in series between the XCVR / ANT junction and connect the capacitor from the COIL / ANT junction to the XCVR chassis and earth ground, see figure 1.

The >L< network will also match most random, non resonant, "short", low

impedance antenna. The short antenna refers to a wire or rod (whip), straight line, zigzag, vertical, horizontal or any combination but always less than a quarter wave at it's operating frequency. The short antenna is a compromise, efficiency can be poor and a counterpoise is required for best results. When matching a highZ (50 Ohm, transmitter) to lowZ (15 Ohm, short vertical) the inductor is connected in series between source and load. The capacitor is "shunt" or parallel to the source, see figure 2. Note, this connection is unlike the "long" example above.

Today our camper is a fifth-wheel with an eight-foot aluminum ladder rack. I just add a Radio Shack # 21-937B Rack Mount Bracket to create a very nice whip antenna support AND ladder rack counterpoise antenna system. The base of my antenna is now atop that ladder rack so a feedline is required. Feedline may assert a length problem and affect the impedance the transmitter looks into when there is a reactive component on the other end. Why? In this case, the load (on the feedline) is a non-resonant length of wire, i.e., a reactive component. Therefore, the transmitter in Figure 2 will only see 50 Ohms with a half wave, 50 Ohm feedline connected. Why? A half wave feedline "repeats" at it's INPUT what it "sees" at it's OUTPUT and the >L< network for the "short" antenna was designed to match 50 Ohm.

Conclusions . . .

Exclude . . . the feedline and it is noteworthy to say, the networks shown in figures 1 and 2 match the Smith Chart ' yin / yang ' curves, i.e., there is most likely no point on the chart one or the other network configuration will not match to 50 Ohm.

Include. . . a feedline of random length and the >L< network may not tune all the bands, however, the operative word is "random" length feed line. Change the feed line length a foot or two and try again.

Ah 'little Theory and Math (very little). . .

The impedance presented by the end of a random wire can range over a very large playing field, from only a few Ohms to several thousand Ohms. This calculation shows just one example, how to match a 50 Ohm source to a 377 Ohm load using the >L< network.

First find K

$K = \text{Square root of } ((\text{HighZ} / \text{LowZ}) - 1)$

$K = ((377 / 50) - 1) ^ { 0.5 }$

K = 2.56

Next find X(L), reactance of the matching coil

$X(L) = K \text{ times LowZ}$

$X(L) = 2.56 \times 50$

$X(L) = 128 \text{ Ohm}$

Next find the matching coil value

If $X(L) = 2 \pi F L$

then $L = X(L) / 2 \pi F$

$L = 128 / (6.28 \times 7.04E6) \gg 7.040 \text{ MHz} \ll$

$L = 2.89E-6$ or (2.89 uH)

The series inductor should be approximately 3 micro Henry

Next find $X(C)$, reactance of the matching capacitor

$X(C) = \text{HighZ} / K$

$X(C) = 377 / 2.56$

$X(C) = 147.26 \text{ Ohm}$

Next find the matching capacitor value

if $X(C) = 1 / (2 \pi F C)$

then $C = 1 / (2 \pi F X(C))$

$C = 1 / (6.28 \times 7.04E6 \times 147)$

$C = 1.5E-10$

$(1.5E-10)$ is 0.15 nano Farad or 0.00015 micro F or 150 pico F

For a lower SWR : >) make C a variable capacitor and (if required) parallel fixed value capacitors to extend the range or series fixed values to decrease the range (total value).

Thank You . . .

This article is the result of my response to a thread on qrp-l. Ade, W0RSP wrote in part . . . "If you really are worried about the weight of a feedline, why use one at all? Instead put up an end fed antenna coupled to a tuner". Doug, KI6DS, read my solution to the feedline weight problem and ask to publish my humble input. This is indeed an honor, thank you Doug, for the invitation and privilege to publish in QRPP. Special thanks go to Bill, KD7S and L.B., W4RNL, for their patient guidance and knowledgeable assistance.

I welcome all comment, $\gg n3aaz-qrp@juno.com \ll$

John, N3AAZ

$\lll \text{ END TEXT } \lll$

enjoy . . .

73,

John
N3AAZ
FM 19 xa

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<http://dl.www.juno.com/get/tagj>.

Date: Wed, 18 Jul 2001 07:22:37 -0500
From: "Mike Malone" <mmalone@worldlogon.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [102954] Re: CUB FOX HUNT SOAPBOX
Message-ID: <000a01c10f84\$5545c4e0\$4800000a@nationwiderecovery.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Howdy from cub fox KD5KXF, I gave out 17 pelts last night and will list my preliminary log later today. I had a lot of fun despite poor conditions last night... I really appreciate everyones patience and sorry to those I didn't get. Well, next hunt will be better...at least I won't be quite as green HIHI. Thanks hounds and whoever left the flea collar in the mailbox, much appreciated.

Mike KD5KXF

Date: Wed, 18 Jul 2001 08:37:06 -0400
From: "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
To: "'leon_heller@hotmail.com'" <leon_heller@hotmail.com>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [102955] RE: Micro Wankel rotary engine was Re: Portable Power Generator
Message-ID: <078F21595FA7D411B87B00805FA728E64A4943@atlexc02ntms.h boc.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I'll bet, with the new ceramic seals being used, they would hold up under the load. The blowby of the old seals killed the engine. I rode in one of

the cars when they first came out here in the 70's and wow, what acceleration. It was instant wind up of the engine. Just could not believe an engine could change speed that fast compared to a "standard" engine.

Jerry
W3CDE

-----Original Message-----

From: Leon Heller [mailto:leon_heller@hotmail.com]
Sent: Wednesday, July 18, 2001 3:46 AM
To: Low Power Amateur Radio Discussion
Subject: Re: Micro Wankel rotary engine was Re: Portable Power Generator

>
>I bet this one isn't cheap either, yet!!!! Goto:

The Wankel failed largely because the rotor seals were found to wear rapidly. It would be interesting to see how this problem has been overcome in this new engine.

Leon

--
Leon Heller, G1HSM
Tel: +44 1327 359058
Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Date: Wed, 18 Jul 2001 08:43:00 -0400
From: Kenneth Hoglund <hoglund@wfu.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [102956] Verticals, Long wire, and qsb
Message-ID: <3B558454.30DB5F64@wfu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The Cub hunt was very tough last night. I had planned a little surprise. For the past hunts this summer I've been loading the 40m attic dipole for 20m, and it has been ok, but it never seemed to load easily, nor have I received any strong signal reports.

For last night, I erected a Cushcraft R-3 vertical on the deck, base at about 11 feet above ground. Open ground in all directions except east. Earlier in the evening tuned up the antenna and it loaded like a charm. When the hunt began, I heard lots of activity around the hunting ground, and heard some of the hounds going after Mike, but didn't hear Mike at all. Kept seeking AA3UR but as we know, he was struggling with gear. Checked the list about half-way thru and saw that some folks were hearing Mike so tried again but didn't even hear hounds.

The rig, Kenwood TS-180S allows a second antenna to be used for reception, and I fastened on a long-wire attic antenna I use for swl. Flicked the switch and the band came alive with static crashes, pops, and more signals. Mike was esp level, but when the qsb rolled this way, he was readable. Shot off several calls: some over, some under, some on frequency, but all I heard was Mike's cq's and he wasn't hearing me.

The reception difference between the two antennas was something I played with for awhile, hoping the band would settle down (it didn't). While the long wire pulled lots more "stuff" in (its 34 feet above ground, maybe 70 feet strung in a big U), it also pulled in much more noise and interference. The vertical was definitely quieter, but it didn't seem to impact the strength of Mike's signal: maybe it was slightly weaker on the vertical than the long wire.

More of the problem is the qsb I've been experiencing. So let's get some ideas flowing: how do the pro's out there handle quickly shifting band conditions?

Thanks to the foxes for putting the time in; must have been frustrating for them as well as us hounds!

73

Ken KG4FGC

Date: Wed, 18 Jul 2001 06:33:02 -0700
From: Mike&Paula <herr@ridgecrest.ca.us>
To: qrp-1@Lehigh.EDU
Subject: [102957] NorCal
Message-ID: <200107181333.f6IDX2S31509@castor.ridgenet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

All,

Did I miss something? Seems that the NorCal club's web page is down and has been a while.

...Mike WA6ARA

Date: Wed, 18 Jul 2001 09:58:40 EDT
From: Edgerhardt@aol.com
To: qrp-l@lehigh.edu
Subject: [102958] OH0/OK2DA/P
Message-ID: <103.622eb8f.2886f010@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Worked the above (Alard Island) at 1128z from Florida. I used my low tech random wire stealth antenna sticking out of my second story window and the FT-817 at 5 watts.

The band was quiet except for his very weak signal, about a 519. I called him never expecting to hear back..he called me after the first attempt...he got my call after a few repeats.

Just goes to show you that you never know about hearing a weak signal.

My question is, did the mojo from the K1 sitting next to the 817 make the QSO happen? No, I don't think I want to open that can of worms.

73
Ed
N4EJG

Date: Wed, 18 Jul 2001 09:51:43 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: hoglund@wfu.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [102959] Re: Verticals, Long wire, and qsb
Message-ID: <3B55946F.D703EF1E@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ken,

Some points.

Why do you think "the pros" have any more success with changing band conditions than you do? None of us, and I consider myself to have been a pro, have any secrets other than perhaps a better idea of what the changing band conditions will do. When QSB takes a signal out you only have one alternative, wait until it comes back.

Now, about your antennas. Where is your attic dipole located. Are there any large metal masses close to it? What about insulation? All of these things can detune the antenna or absorb RF energy from it before it gets the chance to fall to the ground!

Your vertical experiment is interesting. The bands were not in very good shape on Monday night. The sunspot numbers were way down. Is that a 1/4 wave vertical or a 1/2 wave vertical? There is a difference in the ground requirements, as you probably know.

Don't be fooled by an antenna's performance on receive. Most receivers tend to be very forgiving of impedance mismatches and have way more gain than is really necessary!

73

Date: Wed, 18 Jul 2001 10:06:29 -0400
From: "tbowman@nbn.net" <tbowman@nbn.net>
To: qrp-1@lehigh.edu
Subject: [102960] NN1G two-board transceiver
Message-ID: <412001731814629866@nbn.net>
MIME-Version: 1.0
Content-type: text/plain; charset=iso-8859-1

I have the boards for this rig and want build it for 20 meters.

This is the 12/1994 revision, the two-board version.

I'm looking for suggestions for what frequency crystals to buy for this rig, and where to buy them.

This is the revision with four crystals in the IF filter.

The schematic shows 10 mHz crystals but I think there was a later version that moved the IF off of 10 mHz and WWV.

This rig has a ton of revisions so any help is appreciated.

73,

Tom, WA3REY

Date: Wed, 18 Jul 2001 10:01:18 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: Edgerhardt@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [102961] Re: OH0/OK2DA/P
Message-ID: <3B5596AE.85D3A62A@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ed,

There is no MOJO. Repeat this to yourself 1000 times, take two aspirin (or Tylenol's) and do it again in the morning.

You didn't say what band you were on. We used to see "dead band" skip of this type when I lived in Europe. Made a lot of very good and often rare DX QSO's this way!

73

Date: Wed, 18 Jul 2001 10:18:54 -0400
From: Paul Womble <pwomble1@tampabay.rr.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [102962] Re: OH0/OK2DA/P
Message-ID: <3B559ACE.DD2D3A1C@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

What?

No MOJO?

You don't believe in Santa Claus do you Bruce?

Paul K4FB

Bruce Muscolino wrote:

> Ed,
>
> There is no MOJO. Repeat this to yourself 1000 times, take two aspirin
> (or Tylenol's) and do it again in the morning.

Date: Wed, 18 Jul 2001 10:11:16 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: tbowman@nbn.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [102963] Re: NN1G two-board transceiver
Message-ID: <3B559904.3B69FDE0@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Tom,

Other NN1G transceivers have used crystals from 10 MHz to 12 MHz as filters. Actually it allows him some constancy in the choice of VFO frequency. I built one for 40 meters using 4 MHz crystals. 4.032 MHz crystals are specified for 20 meters in the Handbook.

Before people get all up in arms, my 40 meter version was the two board set up like yours. I have also built the single board variety. I think the single board design is superior!

73

Date: Wed, 18 Jul 2001 16:27:51 +0200
From: "Ingo DK3RED" <dk3red@t-online.de>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [102964] Re: OH0/OK2DA/P
Message-ID: <004001c10f95\$f662d320\$a2ad01d9@ingo>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello Bruce,

> You didn't say what band you were on. We used to see "dead band" skip
> of this type when I lived in Europe. Made a lot of very good and
often
> rare DX QSO's this way!

18.085

But on the other bands (i.e. 21.029) are also OH0/OK stations.

gl es 72 de Ingo, DK3RED

E-Mail: dk3red@qsl.net - Homepage: www.qsl.net/dk3red

Date: Wed, 18 Jul 2001 10:31:16 -0400
From: Kenneth Hoglund <hoglund@wfu.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [102965] QSB et al
Message-ID: <3B559DB4.B66A6DA@wfu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bruce--

Some great points, as usual. Here's a stab at some answers:

"Why do you think "the pros" have any more success with changing band conditions than you do? "

Being still new to the 'amateur service', I'm continually discovering simple things that I didn't know. I've read almost all the Operating Handbook and most of the 2001 Handbook (wore out the library's 2000 ARRL Handbook) but there are still things I learn from posts to this list I never knew. So I figure one of you must have a nifty trick up your sleeve! Besides, haven't been on 20m until this summer.

"When QSB takes a signal out you only have one alternative, wait until it comes back."

Drat!

"Now, about your antennas."

The house is a two-story with basement partially in ground. Peak of the

roof is 37 feet above ground. Dipoles are two in number: a HB 10m dipole (have worked most of Europe on 10w or less ssb, so that works) and store-bought 40m dipole cut for 7.100, both in peak. Fed by 50 feet RG-58U coming from a bedroom below. Other than a small ac exchanger on floor of attic, there's nothing but roofing nails and wood to absorb rf. Insulation is all on the floor of the attic. Both follow the line of the house, N-S.

Earlier in the evening, tried to check into the NEQRP ssb net. Running about 8 watts into the dipole, I could hear Seeb running the net, and tried to check-in. I believe he heard me, but then static crashes from some summertime disturbance just over the stateline in VA (checked WeatherChannel) made receiving nearly impossible. That and some lid calling "1,2,3 10" over and over! Did hear AB8DF from MI loud and clear when he was interacting with the net. Both dipoles have proven to be pretty good installations and I have no plans to abandon them, though I want to add more options to the QTH.

"Is that a $1/4$ wave vertical or a $1/2$ wave vertical? There is a difference in the ground requirements, as you probably know."

The R-3 is for 30m to 10m, and must be 5/8s on 20m. It ended up as tall as the house when I got it mounted (temporary, as the xyl reminds me, temporary). It loaded up like a charm, swr about 1.4:1. Best I ever got out of the 40m dipole was 2.5:1. The vertical has a counterpoise ring-thing at base--claims it needs no other elements (been wondering about that).

"Don't be fooled by an antenna's performance on receive. Most receivers tend to be very forgiving of impedance mismatches and have way more gain than is really necessary!"

Yes, and I don't think I could ever get the long-wire to load for a transmitting option. But the noise difference was more marked than I had expected.

Hope all this is of interest to others out there struggling with figuring out the most efficient set-up for their particular circumstances.

Date: Wed, 18 Jul 2001 10:33:40 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: pwomble1@tampabay.rr.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [102966] Re: OH0/OK2DA/P
Message-ID: <3B559E44.425B6E02@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I'm not sure that deserves a real answer, But if you're above 5 years of age then you already know the answer! If you're not, write again when you are.

73

Date: Wed, 18 Jul 2001 10:50:30 -0400
From: "tbowman@nbn.net" <tbowman@nbn.net>
To: QRP-L@lehigh.edu
Subject: [102967] Re: NN1G two-board transceiver
Message-ID: <633420017318145030355@nbn.net>
MIME-Version: 1.0
Content-type: text/plain; charset=iso-8859-1

>Before people get all up in arms, my 40 meter version was the two
>board
>set up like yours. I have also built the single board variety. I
>think
>the single board design is superior!
>

Hi Bruce,

I also have the one-board version for 40 meters which I like very much.

Why do you prefer the one board to the two-board version???

Again, this is going to be for 20 meters and I thought the four crystal IF might be better selectivity wise than the two-crystal version/

Help!

Tom

Date: Wed, 18 Jul 2001 07:59:52 -0700
From: lhlousek <lhlousek@nvhbell.net>
To: Edgerhardt@aol.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [102968] Re: OH0/OK2DA/P
Message-ID: <004c01c10f9a\$4c813180\$650dfea9@nvhbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

<<<My question is, did the mojo from the K1 sitting next to the 817 make the QSO happen? No, I don't think I want to open that can of worms.>>>

Too late. What you were experiencing was mojo flux leakage. Under certain circumstance the one-turn flux leakage from the toroids in the K1 can constructively interfere to form a CFMA (Cross Field Mojo Antenna), (which doesn't require a ground or counterpoise) and irradiate adjacent equipment with TEM (transverse Elecraft-Mojo) waves. You're lucky you didn't blow the finals in that 817!

Lou W7DZN

Date: Wed, 18 Jul 2001 08:08:43 -0700
From: "Dave Fifield" <dave@redhotradio.com>
To: <herr@ridgecrest.ca.us>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [102969] Re: NorCal
Message-ID: <002501c10f9b\$8a002f60\$0200a8c0@pacbell.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Like I have been trying to post for a while without success,
Gerry has asked me to post the following:

The provider for the NorCal Page has had a very large
hardware failure causing most of the page to be down
most of the time.

The listed addressing and links do not work either.
If you want to see the page address:
<http://www.fix.net~jparkers/norcal.html>

Hopefully you will get what you need.
Please bear with me as I too am waiting very
impatiently for them to get their act together after
almost 5 days.

So, it seems that the ISP has failed - as Jerry says, please
be patient until the problem is fixed.

----- Original Message -----

From: "Mike&Paula" <herr@ridgecrest.ca.us>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, July 18, 2001 6:33 AM
Subject: NorCal

> All,
> Did I miss something? Seems that the NorCal club's web page is down
and
> has been a while.
> ...Mike WA6ARA
>

Date: Wed, 18 Jul 2001 11:13:10 -0400
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: ".QRP-L Discussion Group" <QRP-L@Lehigh.edu>, "W.D.(Doc)Lindsey/K0EVZ"
<70511.3041@compuserve.com>
Subject: [102970] Cub FOX AA3UR
Message-ID: <200107181113_MC3-D999-2787@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
charset=ISO-8859-1
Content-Disposition: inline

Gang:

Last evening in anticipation of the Cub FOX Hunt (7/17, 0150Z), David AA3=
UR
posted the following to the reflector:

>>Hi Hunters,

There is a thunderstorm nearby with lots of strikes, about 1 every 5 seconds. Nothing real close, but it may delay my start. As soon as it blows over, I'll be there.

David Porter
aa3ur@home.com
AA3UR<<

David did the right, safe, prudent thing here. Lightning is nothing to be taken lightly, and strikes can occur even when the storm seems far away. =

They can be deadly, with catastrophic results. I appreciate David's wisdom here.

73,
--Doc/K0EVZ

Date: Wed, 18 Jul 2001 10:08:14 -0500
From: "Mike Malone" <mmalone@worldlogon.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [102971] Preliminary Cub Fox Log from KD5KXF
Message-ID: <000701c10f9b\$78394050\$4800000a@nationwiderecovery.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Here is my preliminary log from last nights hunt. There is a problem. I worked K5DI early into hunt (he is in NM) but I didnt get it in log right and dont know time, rst, power. Karl, please email me so I can get you in here. Sorry about that... Thanks for the fun and hopefully my next time out we will have better conditions. Email me if you guys see any errors here before I declare it official.

0207	K0EVZ	559	ND	DOC	5W
0210	K7FD	559	OR	JOHN	5W
0212	N4ROA	559	VA	DAN	5W
0220	VA6RF	559	AB	EARL	5W
0222	KI0II	559	CO	RON	1W
0229	N0TK	559	CO	DAN	2W
0238	NB0W	559	NE	SCOTT	2W

0241	K4GT	559	GA	JIM	5W
0245	NV4V	559	KY	PETE	5W
0250	W0MC	559	CO	JERRY	5W
0259	WA2WMJ	559	NY	JULIAN	????
0307	KJ0C	339	MO	JIM	5W
0312	KC1FB	559	CT	JIM	5W
0320	N0TU	559	CO	STEVE	1W
0346	W3CD	339	CA	BOB	5W
0349	K4FB	559	FL	PAUL	5W
0352	N0RC	559	CO	ROD	5W
0359	KD5KXF	+20	TX	MIKE	5W

Date: Wed, 18 Jul 2001 11:28:05 -0400
 From: George Heron <gheron@safenet-inc.com>
 To: "'njqrp@njqrp.org'" <njqrp@njqrp.org>, qrp-1@Lehigh.EDU
 Subject: [102972] RE: ScQRPion SVSI,SOP Rx, Fireball torids?
 Message-ID: <3E89A18A51CBD411BD1B0002A507C88BB4A169@MAX>
 MIME-Version: 1.0
 Content-Type: text/plain;
 charset="iso-8859-1"

Regarding questions 2 & 3 ...

- 2) The SOP Receiver's T3 component is a T37-2 core. Mysteriously omitted from the parts list but referenced in the text as the "red core".
- 3) The T-R switch in the Fireball 40 indeed used 52 turns on a T37-2 core. Lots of winding and perhaps 10 of them overlapped due to the size of the core, but it didn't reduce the Q of the inductor too much and the switch operated just fine. (We had a space limitation on the board.) One could indeed use a T50-2 core and 47 turns sounds about right.

Good luck! (I must've missed the original description of your project).

73, George N2APB
 n2apb@amsat.org

=====

- 2) Reading over the docs for the NJQRP Club SOP RX, the schematic shows a T3 in the RF Pre-Amp section (described as T1 in the installation instructions), but in the parts listing there is no mention of a T3. So,

the ? is.. what kind of core is T3? Is it the same as T1, a T37-2?

3)Finally, checking over the docs for the Fireball 40 TX, in the optional T-R Switch section, the schematic shows a T37-2 with 50 (!) turns of #26. The installation instructions in the Fireball docs show 26 turns of wire and

the instructions in the FB40 amp docs show 52 turns of #26. I am betting that the 26 turns is a typo (grin - we all make those..hi hi). The docs say

that this is quite a bit of wire on this torid and that you will have to overlap the windings. So using the formulas and the data sheets, it looks like I can use a T50-2 with 47 turns and get the same 10.8 uh. Less winding and more room on the torid. Am I thinking correctly here, or am I way off base???

Date: Wed, 18 Jul 2001 10:41:35 -0500
From: "James P. Osburn, P.E." <j.p.osburn@ieee.org>
To: "List; QRP, QRP Mailing List" <qrp-l@lehigh.edu>
Cc: "wvara@butler.indiana.net" <wvara@butler.qrp.com>
Subject: [102973] Wire Inductance
Message-ID: <000501c10fa0\$467f0cc0\$6ee9a0ce@aaacomputer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The WBR receiver in the August QST uses a wire 1" long for an inductor. I thought that was pretty small at 7 MHz so I wrote myself a little program to calculate the reactance. For a 1" wire 0.5" above a ground plane I get 0.8 Ohms. That's bigger than what I expected but that's probably good since it means the circuit will work.

My little program is a web page. You can find it at <http://lightning.qrp.com/~wd9eyb/swix/>
I got the formula from the 2001 ARRL handbook.
I tested the program with the example in the handbook.
Feel free to use the program as you wish.

Jim, WD9EYB

Reply-To: j.p.osburn@ieee.org

Date: Wed, 18 Jul 2001 08:45:12 -0700
From: Dan Tayloe <dtayloe@home.com>
To: wb0wao@hotmail.com, qrp-l <qrp-l@Lehigh.EDU>
Subject: [102974] Re: ScQRPion SVSI,SOP Rx, Fireball torids?
Message-ID: <3B55AF08.4E1081B9@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

1) Looking at the schematics for the ScQRPion SVSI and the Improved SVSI, it
>shows T1 as a T37-43 torid? According to the references I downloaded last
>nite, there is no such thing as a T37-43, there is however a FT37-43, could
>this be a typo on the schematics? I did not see a reference value for this
>component, so I couldn't check that way! Anyone have the low down on this?

Yes, it should be a FT37-43.

T1 is a simple RF voltage step up transformer used to increase the sensitivity of the LED detector. With these circuits, the LED goes out with a reflected power of only 5 mW or so. This allows the LED SWR bridge to be useful with very low power QRP transmitters.

$$\text{SWR} = \frac{1 + \sqrt{\text{reflected pwr} / \text{forward pwr}}}{1 - \sqrt{\text{reflected pwr} / \text{forward pwr}}}$$

With a QRP transmitter with as little as 250 mW of output power and a LED bridge detector reverse power threshold of 5 mW means that the LED goes out at an SWR of 1.3:1 or less.

At bad mis-matches, the LED is bright enough that it can be hard to see any brightness change. The eye's optical nerves kind of get saturated. When used with tuner, I first use the receiver noise to listen for a tuner "peak". This tells me I am in the ballpark of some kind of match. Then I tune with TX power and look at the LED off axis. This way the brightness of the LED will be significantly reduced and I can see brightness changes. At a near

perfect
match, the LED will go out, or at least get really dim.

I have seen cases where the LED goes out when the rig and bridge is terminated in a 50 ohm dummy load, but not go out when connected via a tuner to an antenna.

A 50 ohm dummy load will terminate all frequencies, so the bridge will indicate a match (at all frequencies!).

I think the limit on transmitter harmonics is 30 db down, so with 5w input, 30 db down is 5 mW, which can just be detected as reflected power when only the fundamental frequency is matched via a frequency selective tuner to an antenna.

I guess that this implies that you could check the harmonic limit out of your 5w rig by using a Z-match (like the BLT or ZM2) into a 50 ohm dummy load and see if your LED goes completely out. Bad harmonics are likely caused by over drive of the final, so the fix may be as simple as backing the drive down a bit.

- Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions

Date: Wed, 18 Jul 2001 09:11:42 -0700
From: "Laurent C. Lafond" <aa1qj@earthlink.net>
To: qrp-l@Lehigh.EDU
Subject: [102975] re: Miracle Antenna
Message-ID: <3B55B53E.AFDE8877@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

A lot of discussion and thanks for that - only problem is that I set the mag aside for possible construction at a later time. That time is upon me, and I find that the mag was canned by my housekeeper. Any thoughts on how to obtain a copy of the article?
thanks,

Laurent aa1qj

Date: Wed, 18 Jul 2001 12:13:09 EDT
From: ARDUJENSKI@aol.com
To: qrp-1@lehigh.edu
Subject: [102976] Floating counterpoise?
Message-ID: <ce.1792cc9e.28870f95@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Arnie Corso's C02KK website discusses a "floating counterpoise" for an Inverted-L and alluded to providing more details but this was over a year ago. I have not been able to contact him by email for clarification. Mayby someone here in the group may be able to explain this set up

"Using the inverted "L" for transmitting, does require the installation of a good ground system or a "floating counterpoise", a device coming from the early days of radio that provides an amazing improvement in performance of many antennas... More about the "floating counterpoise" soon right here at this WWW site..."

Alan KB7MBI

Date: Wed, 18 Jul 2001 12:12:53 -0400
From: "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [102977] RE: Miracle Antenna
Message-ID: <078F21595FA7D411B87B00805FA728E64A4946@atlexc02ntms.hboc.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

The first thing you want to do is can the housekeeper!!

Don't all people know that QST is like gold, you never get rid of them??

Jerry
W3CDE

-----Original Message-----

From: Laurent C. Lafond [mailto:aa1qj@earthlink.net]
Sent: Wednesday, July 18, 2001 12:12 PM

To: Low Power Amateur Radio Discussion
Subject: re: Miracle Antenna

A lot of discussion and thanks for that - only problem is that I set the mag aside for possible construction at a later time.

That time is upon me, and I find that the mag was canned by my housekeeper.

Any thoughts on how to obtain a copy of the article?

thanks,

Laurent aa1qj

Date: Wed, 18 Jul 2001 12:15:41 -0400
From: "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
To: "'ARDUJENSKI@aol.com'" <ARDUJENSKI@aol.com>, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [102978] RE: Floating counterpoise?
Message-ID: <078F21595FA7D411B87B00805FA728E64A4947@atlexc02ntms.hboc.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Arnie,

Many people run another antenna lead/counterpoise above ground, 1-4 feet, under the antenna. This provides the proper ground reference for the radiating element.

-----Original Message-----

From: ARDUJENSKI@aol.com [mailto:ARDUJENSKI@aol.com]
Sent: Wednesday, July 18, 2001 12:13 PM
To: Low Power Amateur Radio Discussion
Subject: Floating counterpoise?

SNIP

Arnie Corso's C02KK website discusses a "floating counterpoise" for an Inverted-L and alluded to providing more details but this was over a year
Alan KB7MBI

Date: Wed, 18 Jul 2001 10:22:49 -0600
From: "Rod Cerkoney, N0RC" <rod@n0rc.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, "Club-pre"

<members@club-pre.org>
Subject: [102979] FS Sierra
Message-ID: <018c01c10fa5\$e3d74140\$6401a8c0@c919125b>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

\$350 Shipped & Insured CONUS

The radio is only a few months old and is in like new condition.

Included are:

- + BuzzNot Noise Blanker
- + KC2 PWR/S/KEYER/F-Counter
- + Front panel ABX
- + Band modules for 40, 30, 20 & 15

I'll even include an NTE341 should you wish to make the power modifications that have been posted (available on the NJQRP site) the NTE341 is a MRF 237 equivalent.

Pictures at: <http://members.home.com/rwc26/fs/sierra.html>

73, Rod N0RC
Ft Collins, CO

Date: Wed, 18 Jul 2001 12:26:55 -0400 (EDT)
From: "John L. Sielke" <w2agn@pobox.com>
To: Bruce Muscolino <w6toy@erols.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [102980] Re: OH0/OK2DA/P
Message-ID: <XFMail.20010718122655.w2agn@pobox.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

The Grinch is alive and well on QRP-L!

John W2AGN (who believes in Santa Claus, the tooth fairy, Hobbits, etc., and is DEFINITELY over 5 years of age!)

On 18-Jul-2001 Bruce Muscolino wrote:

> I'm not sure that deserves a real answer, But if you're above 5 years of
> age then you already know the answer! If you're not, write again when
> you are.

>

> 73

Date: Wed, 18 Jul 2001 09:27:49 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: aa1qj@earthlink.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [102981] Re: Miracle Antenna
Message-ID: <3B55B905.DD366F1D@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

"Laurent C. Lafond" wrote:

>

> A lot of discussion and thanks for that - only
> problem is that I set the mag aside for possible
> construction at a later time.
> That time is upon me, and I find that the mag
> was canned by my housekeeper.

That happened to me.

> Any thoughts on how to obtain a copy of the
> article?
>

I bought a new copy of that issue. It has many more articles of
interest than just that one.

Phil W7OX

Date: Wed, 18 Jul 2001 12:30:27 -0400 (EDT)
From: "John L. Sielke" <w2agn@pobox.com>
To: qrp-l@lehigh.edu, fpqrp-l@mpna.com
Subject: [102982] Spell Check
Message-ID: <XFMail.20010718123027.w2agn@pobox.com>
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

This is too good not to share. I rarely use my spell checker ("ispell," in Linux). But I was having a "senior moment," and punched it up. It started with "QRP-L" and the first "alternative" was...."CRAP"

Could my spell checker be smarter than a lot of us?

John W2AGN

Date: Wed, 18 Jul 2001 09:28:58 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: w2agn@pobox.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [102983] Re: OH0/OK2DA/P
Message-ID: <3B55B94A.633F2E0F@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

"John L. Sielke" wrote:

>
> The Grinch is alive and well on QRP-L!
>
> John W2AGN (who believes in Santa Claus, the tooth fairy, Hobbits, etc., and is
> DEFINITELY over 5 years of age!)
>

Unfair to lump all those real entities in with S. Claus :-;

Phil

Date: Wed, 18 Jul 2001 09:31:50 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: Jerry.Lofstead@itb.mckhboc.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [102984] Re: Miracle Antenna
Message-ID: <3B55B9F6.ED805A4D@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

"Lofstead, Jerry" wrote:

>
> The first thing you want to do is can the housekeeper!!
>

Yes .. definitely grounds for divorce.

> Don't all people know that QST is like gold, you never get rid of them??
>

Oddly, that is the only issue I've lost in the last 10 years (happened on trash day, so I suspect it got recycled with the newspaper stack).

But the only answer is to buy a new copy (I did); that was a very good issue!

Phil W7OX

Date: Wed, 18 Jul 2001 09:33:29 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: w2agn@pobox.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [102985] Re: Spell Check
Message-ID: <3B55BA59.71FC0FB0@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

"John L. Sielke" wrote:

>
> This is too good not to share. I rarely use my spell checker ("ispell," in Linux).
> But I was having a "senior moment," and punched it up. It started with "QRP-L" and
> the first "alternative" was...."CRAP"
>

Like the time I was doing a report for NASA and the spell checker changed NASA to NAUSEA. Dangerous things, spell checkers :-;

73, Phil

Date: Wed, 18 Jul 2001 09:51:03 -0700
From: "Bill Jones" <kd7s@psnw.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [102986] Take a deep breath
Message-ID: <004b01c10fa9\$d6c74dc0\$9110010a@fresno>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Friends,

We have a few "contributors" to qrp-l who like nothing more than to send inflammatory messages to no one in particular, just to stir the pot. If one or two people respond in anger, the original poster's goal has been met. Please, as tempting as it may be to reply with both barrels blazing, let it go.

If this message offended anyone, I offer an honest and sincere apology. If you feel the need to flame me, please do so at kd7s@psnw.com. Thank you.

=====
Bill Jones - <><
Sanger, California
=====

Date: Wed, 18 Jul 2001 12:58:09 EDT
From: Shephed@aol.com
To: <qrp-l@lehigh.edu>
Subject: [102987] Is there a MOJO Claus?
Message-ID: <85.d35f4d3.28871a22@aol.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Dear Virginia,

>From time to time we all wonder this. Is there really such a thing as
“MOJO”?

As we mature in years we all too often grow cynical and lose that wonderful innocence that makes life a wonderful thing to a part of.

The answer to your question is not easy, for you see MOJO is different things to

different people.

For some it's simply being in the right place at the right time, while to others it's a wonderful thing that ties together special moments and people together.

For most of us it's that special feeling we get when something wonderful happens to us.

An example would be, you need one more country for DXCC/QRP. For the last two years you have worked, and worked to achieve this goal but to no avail. After talking to several of your buddies, and hearing wonderful things about the K2 and it's so called MOJO, you break down and get one! You figure what the heck, it's worth a try.

So you're sitting in your shack listening to far off signals just before sunset (local time, not UTC).

You have read on the ARRL DX wire that P5xx, North Korea is active this month on 20 meters CW and you have not worked that country. Sitting there in your comfy shack, quietly spinning the knob on your K2 you hear very little in the way of signals, when near the bottom of the band you hear the familiar din of CQ DX CQ DX de P5xx calling! Your heart races, your pulse quickens as you grab the key and fire off your call. You sit there, your ears tuned, your mind racing a mile a minute when you hear your call being sent back W8xx de P5xx tu 559! You fire back, P5xx de W8xx tu om ur 599 oh btu.

He sends back a welcome message that he needs your county for an award and asks if you would please QSL to his stateside manager! WOW!

Now, was this simply being at the right place at the right time, or was it something more. Did getting the new K2 make the planets line up in your favor with it's MOJO? Or as some would say, it's just blind luck, don't get excited. Well, call me a romantic, call me dolt, or what ever you like, I know it was the MOJO!

So in closing,

YES VIRGINIA, THERE IS A MOJO CLAUS!

Date: Wed, 18 Jul 2001 11:00:38 -0600 (MDT)

From: "Karl F. Larsen" <k5di@zianet.com>

To: <qrp-1@lehigh.edu>

Subject: [102988] W3FF Ant on 30 Meters

Message-ID: <Pine.LNX.4.33.0107181100001.1528-100000@localhost.localdomain>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Not real sure what is going on but today I got a near optimum setup for 30 meters. Not sure what it means but with these coils I had to push in the first element most of the way on both sides to reach a SWR of exactly 1:1 on my MFJ Antenna Analyser at 10.120 MHz. The hot side coil is 59 turns of number 26 hookup wire on a 5 inch piece of CPVC 1/2 inch pipe. The cold side has 68 turns on a 5 1/2 inch pipe. My Argonaut doesn't cover 30 meters so will need to get the TS-50 hooked to it. I want to with care try 100 watts into the antenna.

I was able to put all but the paint pole into an old sock. This antenna is backpack-able.

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Wed, 18 Jul 2001 17:08:09 -0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: tbowman@nbn.net, qrp-l@Lehigh.EDU
Subject: [102989] Re: NN1G two-board transceiver
Message-ID: <F21y4FypKsEgJX0xJag00000ac4@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>

>Again, this is going to be for 20 meters and I thought the four
>crystal IF might be better selectivity wise than the two-crystal
>version/

Yes, the shape factor should be a lot better.

73, Leon

--

Leon Heller, G1HSM
Tel: +44 1327 359058
Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Date: Wed, 18 Jul 2001 13:08:57 -0400
From: "Mike Yettsko" <myetsko@insydesw.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [102990] Re: The niche for the FT-817
Message-ID: <022101c10fac\$581d6ec0\$6b01a8c0@INSYDENT>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Mike" <mmorrow@companet.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> I don't know what niche the FT-817 fills. It consumes too much power
> for anything other than novelty portable operation, yet it's too small
> for ease of use and versatility in regular fixed station use. Perhaps
> "novelty" IS the best characterization of the FT-817 niche for ham use
> outside Japan. The unit was in fact designed for the 2.8 million
> Japanese Fourth Class license holders, and only incidentally marketed
> outside that area.
>
> Mike / KK5F

OK, I'll bite... What IS the restricted band usage for 4th class
license
holders in Japan? At least, what's allowed there in VHF, specifically,
in 2M, that would intentionally limit the 817 from receiving weather.

And....

I wonder, is the 817 'upgradeable'? Is the firmware easily replaceable?
Is it flashable? Is it JTAG?

I wonder how much of the upper 100MHz is firmware limited and how
much is hardware limited...

Mike

Date: Wed, 18 Jul 2001 09:36:50 -0800
From: Jim Larsen AL7FS <AL7FS@pobox.alaska.net>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>

Subject: [102991] QRP & Homebrewing Links Page from NJ QRP Club.
Message-ID: <3B55C932.8D00F68E@pobox.alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

What George, N2APB, said is right on the money, so much so that I will risk a second post to drive home his suggestion.

I use <http://www.njqrp.org/data/links.html> as my home page when Netscape opens. It gives me a great window into much if not most of the activity that interests me. A nice bonus is that George tries to keep the links up to date on a periodic basis. Can you imagine that? :-)

Give it a try. <http://www.njqrp.org/data/links.html>

73, Jim

--

Jim Larsen, AL7FS, Anchorage, Alaska
(BP51cc) - 61.101 North, 149.824 West
<mailto:al7fs@arrl.net> - <http://www.qsl.net/al7fs/>

Date: Wed, 18 Jul 2001 11:56:34 -0600
From: "Rod Cerkoney, N0RC" <rod@n0rc.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [102992] Re: Color me back - from CO
Message-ID: <01fd01c10fb2\$fc3b13d0\$6401a8c0@c919125b>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks for the nice words Paul.

Putting on a fest is a lot of work, hearing others compliment it makes it worthwhile.

Already thinking about and planning next years event. We would love to have you back. (Sorry can't help with the I-25 deal, and with the T-Rex plan it's likely to be worse. UGH!)

We did a survey of attendanees, got about 10% return. It's quite clear that people came for and enjoyed the technical seminars and we'll do them again next year. Hope to see a few more QRP-Lers and CQCers next time. To all who did find there way here thanks for coming and supporting our efforts.

On to Superfest 2002 and our pipe dream--NCARC Supperfest, Dayton of the Rocky Mt. West! ;-)

73, Rod N0RC
Ft Collins, CO

----- Original Message -----

From: "Paul Harden, NA5N" <na5n@rt66.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, July 17, 2001 5:38 PM
Subject: Color me back - from CO

> Gang,
> Had a really great time at the Northern Colorado SuperFest, held at the
> Laramie County Fair Grounds in Loveland, CO (not Longmont as I posted
...
> The QRP presence and attendance of the forums made quite an impression on
> the overall hamfest and officials, demonstrating the excellent job Rod and
> Jerry (and probably a few others) worked at putting it together.
Thanks
> to all for the invitation. It was great meeting you all and I've got it
> pencilled in to return next year. Except PLEASE do something about that
> I-25 traffic getting through Denver. Between the traffic and downpours
> and hail, I remembered what traffic and weather is like -hi.
>
> Thanks again to all,
> 72, Paul NA5N
>
>

Date: Wed, 18 Jul 2001 14:25:38 -0400
From: "Jack Ricci" <ricci@mnsi.net>
To: <rod@n0rc.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [102993] Re: Color me back - from CO
Message-ID: <000801c10fb7\$150a1a60\$038208d8@i5p017>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

It would be nice to video tape those seminars and let us all watch them on net either while on-site or with streaming video to be taught from at our leisure for those of us who cannot always attend these phenomenons you put together.

Jack

----- Original Message -----

From: "Rod Cerkoney, N0RC" <rod@n0rc.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Wednesday, July 18, 2001 1:56 PM
Subject: Re: Color me back - from CO

> Thanks for the nice words Paul.

>

> Putting on a fest is a lot of work, hearing others compliment it makes
> it worthwhile.

>

> Already thinking about and planning next years event. We would love to
> have you back. (Sorry can't help with the I-25 deal, and with the
> T-Rex plan it's likely to be worse. UGH!)

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> time. To all who did find there way here thanks for coming and
> supporting our efforts.

>

> On to Superfest 2002 and our pipe dream--NCARC Supperfest, Dayton of
> the Rocky Mt. West! ;-)

>

> 73, Rod N0RC
> Ft Collins, CO

>

>

>

> ----- Original Message -----

> From: "Paul Harden, NA5N" <na5n@rt66.com>
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Sent: Tuesday, July 17, 2001 5:38 PM
> Subject: Color me back - from CO

>

>
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> > I-25 traffic getting through Denver. Between the traffic and
> downpours
> > and hail, I remembered what traffic and weather is like -hi.
> >
> > Thanks again to all,
> > 72, Paul NA5N
> >
> >
>
>
>

Date: Wed, 18 Jul 2001 11:47:44 -0700
From: Jerry Parker <jparker@fix.net>
To: qrp-l@LeHigh.edu
Subject: [102994] The NorCal Page
Message-ID: <2.2.32.20010718184744.006cd550@fix.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

The provider for the NorCal Page crashed Friday afternoon
last week.

They have been very very slow to recover and still are not
fully recovered.

Please bare with us as many of the picture links etc will not work until the provider reinstitutes the previous shortcuts on the server.

Needless to say, after almost a week of being crippled we will be moving to a new provider.

You can currently access the page at:

<http://www.fix.net/~jparker/norcal.html>

Thanks for your patience.

72,,,Jerry

Date: Wed, 18 Jul 2001 11:50:18 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: jparker@fix.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [102995] Re: The NorCal Page
Message-ID: <3B55DA6A.83A3DA7F@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Jerry Parker wrote:

>
> The provider for the NorCal Page crashed Friday afternoon
>
> last week.
>
> They have been very very slow to recover and still are not
>
> fully recovered.
>
> Please bare with us as many of the picture links etc will
>
> not work until the provider reinstitutes the previous
>

> shortcuts on the server.
>
> Needless to say, after almost a week of being crippled we
>
> will be moving to a new provider.
>
> You can currently access the page at:
>
> <http://www.fix.net/~jparker/norcal.html>
>

It sounds like "fix.net" needs a bit of that! When accomplished, maybe it will be renamed fixed.net :-;

Phil W70X

p.s. -- Thanks for keeping us informed on status.

Date: Wed, 18 Jul 2001 11:42:51 -0700
From: Arthur G Silvers <ags@ieee.org>
To: qrp-l@Lehigh.EDU
Subject: [102996] Re: Half wave end fed question
Message-ID: <3B55D8AB.CC5254D2@ieee.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Good morning,

The length of the end fed zepp is critical for it to work as intended. It must be an exact multiple of half wave lengths so that the feed point is at a high voltage/high impedance node. Essentially, the feedpoint is a theoretical open circuit. When fed with a balanced line of and type, the load is, therefore, balanced with the other side of the balanced line acting as a counterpoise. If feeding with hookup wire, then cut a counterpoise equal to the feeder length between the tuner and half-wave multiple and attach it to the chassis of the tuner.

Very keen on the idea of EFZs these days as I am about to put up an antenna at our new 7600 foot high QTH in Northern California. An EFZ from the house to a tree provides stealth (CCCCs&RRRRs), simplicity, economy, and, hopefully, an effective antenna.

Not long ago, I threw out a 40 mtr zip cord dipole from the deck into the trees and running 4W from a NC20 and ZM-2 QSOed with

P43E in Aruba. Nearly fell off the proverbial chair.

We are facing east on the east slope of a very steep ridge and the dipole was broadside to the slope. A more permanent setup will be behind the house but a broadside aspect, although a proven success, would not be the stealthiest, simplest, snow, wind, and ice robust arrangement. Alas, the lot is not that wide and lacks convenient trees for the desired dipole (actually a 20 mtr EDZ is what I would really like to put up). Also, no holes allowed in the house so cheap 300 Ohm line through the sliding door is a good solution (don't think 450 Ohm line would work very well).

Any thoughts/suggestions would be greatly appreciated.

72,
Arth W6AGS

Date: Wed, 18 Jul 2001 15:49:48 -0400
From: Tim O'Rourke <TO'Rourke@KaiserFT.com>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
Subject: [102997] Help With Old Radio
Message-ID: <910D8E9955E3D411B3AE00A0C9319CB80C6339@MAIL>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I need to call on the group for help. A house belonging to one of Scouts Grandfather caught fire and burnt to ground. One of the few items salvaged was a radio but together by a late relative who was also a cabinet maker. The radio survived because it was in a shed under a cast iron bath tub. The radio is beautifully constructed, and uses a Sylvania SX 171 tube. All connections are via brass plugs. The radio also contains a light bulb. I am trying to trace circuit and need any information you can provide. The 171 tube is bad so I will also need a replacement to put it in service. I am sure it is early QRP so it is not too far off topic.
TNX in advance Tim O'Rourke KG4CHX Respond to KG4CHX@ARRL.NET

Date: Wed, 18 Jul 2001 16:01:29 -0400
From: "Craig A. Ferris" <cferris@aeronix.com>
To: qrp-l@Lehigh.EDU

Subject: [102998] FS or FT 12v 4.5Ahr gel cells
Message-ID: <3B55EB19.892E1C6A@aeronix.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I listed these gel cells a few months ago and all of the potential buyers balked when they saw it cost more to ship them than I was selling them for. So here they are again. They have 12/97 date codes and have been charged every 6 months. These batteries are NOS and have not been in service. I have about 3 dozen of them. Included is a nice carrying bag. They are Powersonic model PS-1242.

\$4 ea. or 3/\$10 + shipping (they weigh 4 lb. ea.) from 32934.

Qrp related items considered in trade. Reply direct.

72,
Craig NR4E
Melbourne, FL

Date: Wed, 18 Jul 2001 15:25:35 -0500
From: "Ed Manuel (N5EM)" <n5em@flash.net>
To: hats@stevens.com
Cc: hqrp@stevens.com, qrp-l@lehigh.edu
Subject: [102999] WTB: Lafayette HE-10 Receiver
Message-ID: <4.3.2.7.2.20010718152045.00b9e4a0@pop.flash.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

OK, I've tried to be Mr. Nice Guy and bid like everyone else on Ebay.

That approach hasn't worked. So now I'll resort to begging :-)

I want to buy a Lafayette HE-10, preferably in good to excellent condition.

Please email me directly - n5em@amsat.org

If you have connections with other list servers that cater to vintage amateur radio equipment, I would appreciate your forwarding this message.

Thanks.

Ed Manuel, N5EM

Houston, TX

Date: Wed, 18 Jul 2001 14:48:43 -0600
From: "Rod Cerkoney, N0RC" <rod@n0rc.com>
To: <ricci@mnsi.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [103000] Re: Color me back - from CO
Message-ID: <022701c10fcb\$08b657b0\$6401a8c0@c919125b>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

OT ON if UNINTERESTED GoTo OQRPP

The concern I for this idea is it eventually depletes hamfest attendee who pay their admission and/or shop at vendor tables. It cost a fair chunk of change to put on an affair like this, so proceeds are needed to cover expenses. Also, vendors don't rent tables to display goods for people who aren't there. Vendors show up to sell stuff and turn a bit of a profit. I've spent long hours talking to vendors, learning this lesson: 'Why spend hundreds of dollars going to a hamfest when I can process, bill and ship thousands of dollars of inventory via internet orders'.

My take on the magic hamfest formula is: quality vendors, technical presentations and large numbers or attendee. Take away any one of the three and the other two suffer. Anybody who has ever organized an event such as this will understand my thesis.

So get out there and support your local club's hamfest! ;-)

OT OFF

OQRPP

Can't wait for Saturday's "Gold Rush" sponsored by the CQC. If weather permits I'm going to pedal my bike to "Missile Park", between Greeley and Fort Collins. I'll be packing my NC20 and accessories to work this event. The cool thing about "Missile Park" is the ground field. Yep a steel mesh is buried just below the surface to enhance antenna/radio performance. We'll see.

If the weather does not permit biking, I'll run from home or maybe car mobile somewhere.

If the weather really stinks, T'storms & such, I'll stay home and take a nap! ;-)

73, Rod N0RC
Ft Collins, CO

----- Original Message -----

From: "Jack Ricci" <ricci@mnsi.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Wednesday, July 18, 2001 12:25 PM
Subject: Re: Color me back - from CO

> It would be nice to video tape those seminars and let us all
watch
> them on net either while on-site or with streaming video to be
taught from
> at our leisure for those of us who cannot always attend these
phenomenons
...

Date: Wed, 18 Jul 2001 17:10:02 EDT
From: MertNellis@aol.com
To: bmurrey@amexol.net, qrp-1@lehigh.edu
Subject: [103001] Re: WBR
Message-ID: <66.11ac6f21.2887552a@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Brian,
When estimating an inductance by changing turns from a know inductance,
remember that, on a toroid where the coeficient of coupling is near unity,
the inductance changes as the turns ration squared. If you have 2.6uh at 25
turns, you only need about 30 turns to get 3.7uh.
Basic formula is: $N2=N1 \times \sqrt{L2/L1}$

Or.... $L2=L1(N2/N1)^2$ i.e. L's are proportional to
the turns ratio squared.

You asked..

>So If I use my T50-6 with say, 35 turns instead of 28, do you think I'll be

>around the 3.7 uH the WBR project is calling for? The data book says 25
>turns of #22 on a T50-6 will make 2.6 uH...so would it be safe to figure
>that 35 would make 3.7 uH?

Date: Wed, 18 Jul 2001 17:06:29 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: hoglund@wfu.edu
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [103002] Re: QSB et al
Message-ID: <3B55FA55.519426B1@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ken,

"The pros" are at the same disadvantage as you are with respect to propagation. One thing they do know is what the propagation is like at their location at any time of year. They know when to look for the far west and they know when to look for the far east. This alone saves them a lot of operating time. Say in sweepstakes, they know when to look for sections to come on the air, thus making the point battle a little easier! This is something you can learn, it takes some experience and a lot of listening!

Your antennas. First off it sounds like the roof line is detuning the 40 meter dipole. The SWR should be about 1.4:1 near resonance, you're seeing 2.5:1. Try looping the ends back on them selves to make the antenna shorter. Short out the excess and see if the SWR improves. Do a foot at a time. If the SWR does not improve, try lengthening the antenna about a foot at a time until you notice a change in SWR. Of course before you do any of this check the coax very carefully. Are the solder joints OK? Is the line OK? Are the connectors OK. I understand it is a commercial unit, that's what you said isn't it, but even they can have random problems! In short what I'm saying is to optimize your antenna!

You might also consider that the signals this weak have been suffering from SSS, S**ching Signal Syndrome! I put my TS830 (not a QRP rig) back on Monday night with the gracious help of WA8MCQ. After he left I had the receiver tuned to W1AW. I heard the end of code practice and then they started on the current solar condition report. The sunspot numbers are off by a large margin right now. Be patient, the bands will come back!

My point about the vertical is there are design differences between 1/4 wave designs and 1/2 wave designs. The 1/4 wave design is very much more dependent on a good ground, either radials or a good earth ground. The 1/2 wave designs are generally center fed or off center fed and use small counterpoises at the base of eh antennas. The overall height does really not matter, the trapped antennas have coils to make them look longer!

Loading a long wire is really easy. It depends on having a good ground, and a wide range tuner, that's all. They are the simplest of all antennas to use. They are just a piece of wire from the rig output to some convenient attachment point over there! Provide them with a decent ground and use a wide range tuner because as their length approaches 1/2 wavelength, the impedance can be a bear. Try one sometime, you may find you like them. I have used one for the past 19 years, just because of restrictions and ease of installation!

73

Date: Wed, 18 Jul 2001 14:18:06 -0700
From: "N7SG K7FD" <k7fd@hotmail.com>
To: rod@n0rc.com
Cc: qrp-1@Lehigh.EDU
Subject: [103003] Gold Rush...when?
Message-ID: <F240yWtIIZS2TRqf69a0000001b@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

It's my understanding the 'Gold Rush' is not this Saturday but the following Saturday...July 28th. Let me know if I've got it messed up...

John K7FD

N0RC said:

>Can't wait for Saturday's "Gold Rush" sponsored by the CQC. If weather
>permits I'm going to pedal my bike to "Missile Park", between Greeley
>and Fort Collins. I'll be packing my NC20 and accessories to work this
>event. The cool thing about "Missile Park" is the ground field. Yep a
>steel mesh is buried just below the surface to enhance antenna/radio
>performance. We'll see.

>

>If the weather does not permit biking, I'll run from home or maybe car
>mobile somewhere.

>

>If the weather really stinks, T'storms & such, I'll stay home and take

>a nap! ;-)
>
>73, Rod N0RC
>Ft Collins, CO

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

Date: Wed, 18 Jul 2001 17:39:03 -0400
From: "Ed Howell" <kb2nto@hfent.com>
To: <qrp-1@lehigh.edu>
Subject: [103004] Apology to list
Message-ID: <000901c10fd2\$11a417c0\$120c5040@kb2nto>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I turned my anti virus off to install a program. Forgot to turn it back on and may have sent some members a virus. This was sent to me by a list member so thought nothing of opening the attachment. Very sorry about this...Ed

Date: Wed, 18 Jul 2001 17:32:14 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: aa1qj@earthlink.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [103005] Re: Miracle Antenna
Message-ID: <3B56005E.9E47B6AE@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

You can get a copy from the ARRL. It will cost a few cents per page, but it will be a good quality copy. Also, you need to look into getting another housekeeper or setting limits on the current one. Ham shacks improve with dust and clutter!

73

Date: Wed, 18 Jul 2001 17:35:01 -0400

From: Bruce Muscolino <w6toy@erols.com>
To: ARDUJENSKI@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [103006] Re: Floating counterpoise?
Message-ID: <3B560105.E983CA2@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Alan,

First off, his name is Coro. A floating counterpoise is just a counterpoise wire run far enough above ground to eliminate the capacity effects that will detune a wire laying on the ground. Think of it as one elevated radial. With only one elevated radial the antenna will be more directional!

73

Date: Wed, 18 Jul 2001 15:46:09 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-l@lehigh.edu, cQCLIST@yahoogroups.com
Subject: [103007] CQC Gold Rush, 7/28
Message-ID: <3B55AF41.8249.8883C1@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

The Great Colorado Gold Rush is...

DATE: Saturday, July 28, 2001
TIME: 2000-2200 UTC
BAND: 20 meters only

I'll append the complete rules, but the "important" things to note are some features of this event that make it particularly interesting:

1. It's only two hours long.
2. Entries are in antenna classes, so you are competing with folks who have the same basic antenna setup (beam, vertical, or wire).
3. You can work each station up to THREE times, as long as there's half an hour between contacts.

73

Marshall, N1FN, for CQC

CQC Goldrush Announcement

2001 Great Colorado Gold Rush

The Great Colorado Gold Rush
(a.k.a. Fire In The Hole)

Sponsored by the Colorado QRP Club

Great Colorado Gold Rush
Sponsored by the Colorado QRP Club
Millennium Edition

It was Colorado, 1859. A land swindler had just published the first issue of the Rocky Mountain News in the settlement that would become Denver. A year earlier, small placer gold deposits were found in that old settlement, near the confluence of the South Platte River and Cherry Creek. And then came the big gold strikes! George Jackson discovered gold in Chicago Creek near Idaho Springs. John Gregory made his famous gold strike not far away, in Clear Creek Canyon. Prospectors dreaming of riches poured into the new gold camps of Central City, Black Hawk, Boulder, Colorado City, Gold Hill, Hamilton, Tarryall, and Pueblo. The fever ran high. The Great Colorado Gold Rush had begun!

Not even a century and a half later, the rush is on again. This time it's the rush to work all states, to join the ranks of DXCC, the desire to sound like a kilowatt but driven only by milliwatts - truly to rush to achieve the impossible.

In honor of our state's colorful history and exciting future, the Colorado QRP Club proudly announces The Great Colorado Gold Rush/Millennium Edition.

This will be a QRP amateur radio contest of unparalleled magnitude, of incredible dimensions, of such unbelievable proportions that---well, actually, it's really just a summer sprint. Two fast hours of heavy hitting. Do your best. Have fun, and good luck in the contest.

WHEN: Saturday, July 28, 2001
TIME: 2000-2200 UTC
BAND: 20 meters only
MODE: CW only

POWER: 5W maximum

CLASSES:

W -- WIRE: single element wire; including dipoles, random wires, Zepp, doublets, inverted V, slopers, single element loops, inverted L, etc.

V -- VERTICAL: verticals; including single element, ground plane, trapped vertical, or anything with vertical polarization and more or less omnidirectional pattern.

B -- BEAM: multi-element arrays/beams; including beams, multi-element loops, phased verticals, V-beam, rhombic, etc.

P -- PORTABLE: non-mobile temporary field station; may use any type of antenna.

Operations may be conducted with different antennas provided all antennas are in the same class.

EXCHANGE: RST + SPC + Class + CQC Member # or Pwr Out Example: 559 C0 V 345 -or- 559 CT P 5W

MULTIPLE CONTACTS: The same station may be worked up to three times during the contest, provided a minimum of 30 minutes has elapsed since the last QSO with the same station.

SCORING:

3 points for first contact with a station.

2 points for second contact with the same station.

1 point for third contact with the same station.

MULTIPLIERS: all multipliers count once over all. Multipliers are SPC's and CQC members worked.

FINAL SCORE: QSO Points x SPC x CQC Members = Total Score

LOGS: Submit logs showing time, callsign, exchange and QSO points for each station worked, show totals of multiplier points. Example:

Time Call SPC Ant Mem#/Pwr Pts

2005 W0CQC C0 V 132 3

2012 N1FN CT W 151 3

2036 W0CQC C0 V 132 2

2037 KA8OM MI P 5W 3

2115 W0CQC C0 V 132 1

Totals 3 2 12
Dupes: W0CQC - 2005 2036 2115
SPC: CO CT MI
CQC#: 132 151

(Optional) Include a brief description of your equipment, antenna(s) used, and power output. Include brag statement.

All submissions must indicate entry class and your mailing address including e-mail address if available.

COMPUTE YOUR FINAL SCORE.

Deadline: Logs must be postmarked or emailed no later than August 28, 2001.

Logs postmarked or emailed after this deadline and logs with no computed final scores will be used as check logs only.

MAIL: CQC Gold Rush, CQC, POB 371883, Denver CO 80237-1883
E-MAIL: ASCII text files only to contest@cqc.org
AWARDS: Certificates will be awarded to the highest scoring station in each antenna class.

Marshall Emm, N1FN
Milestone Technologies, Inc.
(303) 752-3382
<http://www.mtechnologies.com>

Date: Wed, 18 Jul 2001 15:44:52 -0600
From: "Rod Cerkoney, N0RC" <rod@n0rc.com>
To: <k7fd@hotmail.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [103008] Re: Gold Rush...when?
Message-ID: <002001c10fd2\$e14a5b60\$6401a8c0@c919125b>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

John,

Thanks for the clarification John, I say Sat but I'm not clear on which one! A senior moment enhanced by PTHS (post traumatic hamfest syndrome ;-).

73, Rod N0RC
Ft Collins, CO

----- Original Message -----

From: "N7SG K7FD" <k7fd@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Wednesday, July 18, 2001 3:18 PM
Subject: Gold Rush...when?

> It's my understanding the 'Gold Rush' is not this Saturday but the
following
> Saturday...July 28th. Let me know if I've got it messed up...
>
...

Date: Wed, 18 Jul 2001 17:36:50 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: jsielke@pobox.com
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [103009] Re: OH0/OK2DA/P
Message-ID: <3B560172.8D478BAF@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ever seen one? I'd bet they are responsible for the strange propagation
we have experienced this week too. Watch out, the flying saucer men
will pick you up again!

Date: Wed, 18 Jul 2001 17:53:38 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <W2SH@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [103010] RE: Horizontal Loop Length
Message-ID: <1010618175338.RAA03660@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/16/01 11:50 PM, W2SH@aol.com at W2SH@aol.com wrote:

>Incidentally, the notable W1FB was vexed to
>discover that the usual 1005 divided by the frequency, used for years to

>calculate the perimeter of a quad's driven element didn't work out (in the
>case of a horizontal loop) when the wire used was PVC-covered house wire.
>The assumed one-wavelength resonant frequency turned out to be lower than
>expected. The reason is the lesser velocity factor of that kind of wire,
>whereas most quads are constructed of bare or enamel insulated wire and used
>the 1005 constant.

My personal experiments with attic-mounted delta loops and vertical loops made of PVC-covered house wire that are gamma-match fed indicates that the overall length isn't terribly critical.

I'm sure 1005/f as well as 1030/f all work just great.

Changing the shape of the loop slightly does not seem to have much effect on the matching, either.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Wed, 18 Jul 2001 17:49:12 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: k5di@zianet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [103011] Re: W3FF Ant on 30 Meters
Message-ID: <3B560458.B87132A1@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Karl,

You have just discovered the principle of loading! The antenna will probably resonate on 10 mHz if you have the right combination of coil and length. Most mobile antennas work that way. You might be on your way to a dual band antenna, 30 and 40 meters simply by changing the length. One down side, you waste a lot of energy in the loading coils. And you really want them at the ends, not in the center. Center loading a dipole (equivalent to bottom loading a vertical, works but top loading has been proven to be more efficient!

Date: Wed, 18 Jul 2001 17:58:03 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <sslyon@megalink.net>, "QRP" <qrp-1@Lehigh.EDU>
Subject: [103012] Re: Horizontal Loops: Bigger is Better... (Long-ish)
Message-ID: <1010618175802.RAA04144@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/17/01 10:22 AM, ss lyon at sslyon@megalink.net wrote:

>I'll just conclude with
>this: If you have the space and supports, put up the biggest and highest
>loop you can and enjoy one of the very best wire antenna experiences.

I used a horizontal loop for several years, but decided that a doublet
may be a better alternative for multi-band operation.

Here's my reasoning:

- * For either horizontal loop or doublet, the most important single
parameter is the height above ground in wavelengths.
- * A loop requires a minimum of three supports, and works better with four
or more. A doublet requires two, or perhaps one in the inverted-V
configuration.
- * It is much easier to find one or two very high supports in most
locations than three or four.

My experience showed me that a 125 foot doublet at 45 feet was a better
antenna all around than a 270 foot horizontal loop at 15 feet.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Wed, 18 Jul 2001 18:02:17 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: ags@ieee.org
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [103013] Re: Half wave end fed question

Message-ID: <3B560769.2E6AA0DA@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Arth,

Let me put in a commercial her for a slightly simpler installation that will do the same thing with a little bit less fuss with feeders.

I have used an end fed wire for the last 20 years, 1981 to the present! A traditional end fed random wire, with the length varying between 40 feet and 150 feet. I have used this system at two locations, first a condo with all the C.C.&R's, and then at my house, where we do have antenna restrictions.

Fortunately I was never caught while living at the condo. I used magnet wire and when it blew down, about every 3 weeks, I just put up another! Here I use #14 Home Depot wire!

In both installations ground has been provided by an MFJ Artificial Ground and a shortish piece of wire. I did have a full length counterpoise under the rug at the condo as well. There was no noticeable difference between it and the 8 foot piece of wire I use here.

Maintenance is reduced. The antenna comes into the house and hooks to the tuner. with a simple banana plug! Ground is connected to the rig and the tuner. Works for me and I don't have to worry about where my feedline runs!

73

Date: Wed, 18 Jul 2001 15:13:57 -0700
From: "Laurent C. Lafond" <aa1qj@earthlink.net>
To: qrp-l@Lehigh.EDU
Subject: [103014] re: Miracle Antenna
Message-ID: <3B560A25.1688083F@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks for all the input. Managed to find a copy at a (not so local)library.

Can get a copy of applicable pages for cheep.

Ground rules have been redefined for the housekeeper.
She's a keeper - does a fine job at a relatively
low price.

Laurent

Date: Wed, 18 Jul 2001 15:16:35 -0700
From: Wes Hayward <w7zoi@easystreet.com>
To: qrp-l@Lehigh.EDU
Subject: [103015] Re: Half wave end fed question and LED SWR meter???
Message-ID: <3B560AC3.BC013593@easystreet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi all,

The current thread regarding the end fed halfwave antenna is a subject
that has long interested me. But I have had the same questions that
have been expressed here. So yesterday evening was time for some
experiments. Results are now on the web at www.easystreet.com/~w7zoi if
some of you want to take a look.

And all of those years of hauling coax cable up the mountains.....

73, Wes, W7ZOI

Date: Wed, 18 Jul 2001 18:14:51 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: TORourke@KaiserFT.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [103016] Re: Help With Old Radio
Message-ID: <3B560A5B.741A151F@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Tin,

You will probably have better luck on the boat anchors list or one of
the boat anchors reflectors. There are many sources of documentation
around and they know all of them!

Date: Wed, 18 Jul 2001 17:15:37 -0500
From: "Mike Branca" <w3irz@att.net>
To: <qrp-1@Lehigh.EDU>
Cc: "Mike Branca" <w3irz@att.net>
Subject: [103017] Re: NN1G two-board transceiver
Message-ID: <05ba01c10fd8\$ae269040\$fe0b4d0c@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Tom, the two board XCEIVER by NN1G is better in my opinion (after having built both and having trouble shot one of each for friends) for several reasons. First on the dual board model the selectivity is in the crystal filter where it belongs and it will nicely drive a speaker. Second the single board model seems to be sensitive to parts substitutions so it may take a lot of tinkering to get it going and it is a headphone only affair unless you do as I did and add an LM 386.

Both needed RIT so I used the simple one FET design.

I don't know what you are referring to about the mods unless you got boards from a supplier other than FAR. Another supplier was selling unauthorized kits and I understand that some of his boards were poor quality with a lot of changes and jumpers.

I ended up making two basic changes (other than RIT) to my two board XCEIVER. First I used MV1662 varactor diodes (from Hosfelt) in the crystal filter to replace the capacitors to add the variable bandwidth feature (real slick). The second was a design error that put the output of the MC 1350 into the low impedance winding of the IF coupling transformer. This act virtually kills all the gain that is possible from the '1350. You need to study the board and the transformer before you cut traces and connect the primary of the transformer to pins 1 & 2 of the MC 1350. Then couple into pin 2 of the following NE 602 with a 100 pf cap from pin 1 of the MC 1350 and skip the low Z winding altogether.

As for the choice in crystal frequencies there are two things to remember. First the lower the IF frequency is the easier it is to get a narrow bandpass. I built both XCEIVERS for forty meters and used crystals I had on hand which was 4.194 khz on the two board model and 2.457 khz for the single board model. The 2.457 khz two crystal filter was rather good too especially for only two crystals. The second thing is that the lower the IF frequency the higher the local oscillator has to be which means it will be

harder to make a stable oscillator. I usually go for the bargain crystals and take my chances with the local oscillator. Hosfelt has 4.194 crystals for 19 cents each and be sure to order at least 10 so that you can match them yourself. Don't buy pre matched crystals as you don't know what standards were used to match them.

Since I am presently building a 20 meter CW transceiver I will share my plan with you. I am using a different board (The K1BQT QRP 15 from CQ Sept '90; highly modified) but the mixing scheme may interest you. For the IF my crystals are 5068.8 khz, matched to 6 khz and my local oscillator is the dual crystal VX0 using two 9 mhz crystals. I can pull these crystals easily 80 khz on my bench so it only needs to be completed for testing.

The best way to learn is to try things and not worry if you did it wrong. As you make changes along the way don't worry about all the left over parts as they may be considered the cost of learning besides I always have fun at QRP club meetings passing out my extra parts.

Good luck, Mike W3IRZ in Conyers Georgia

Date: Wed, 18 Jul 2001 17:53:34 -0500
From: "Brian Murrey" <bmmurrey@amexol.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [103018] WBR questions answered by Author
Message-ID: <002501c10fdc\$c85acc20\$83532bd1@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Here is the skinny, straight from the horses mouth.

----- Original Message -----
From: "Wissell, Daniel" <Daniel.Wissell@compaq.com>
To: "'Brian Murrey'" <bmmurrey@amexol.net>
Cc: "Wissell, Daniel" <Daniel.Wissell@compaq.com>
Sent: Wednesday, July 18, 2001 8:14 AM
Subject: RE: Torroid sub

> Hi Brian,
>
> Thanks for your note and I'm glad you enjoyed the article. Q1 should be a
> 2N3904; it looks like the parts list got a little mixed up! The schematic

> appears to be correct, however.
>
> You can use a #2 core material, but the receiver will not be as stable as
> when using the #6 core material. The inductance value is calculated to to
> allow about 325kHz of band spread using the MV104 tuning diode and a 5V
> tuning voltage supply. Increasing the inductance will provide greater
> bandspread for the same applied tuning voltage, but the main tuning will
be
> more difficult with the 10-turn pot.
>
> I don't have any pictures of my rigs on the web, but I have several
articles
> in QST which use the same type of construction. If you look up my
references
> you can find them all.
>
> Good luck with building the receiver and I hope you enjoy it! Please feel
> free to send mail with any questions.
>
> Best 72/73's
> Dan N1BYT
>
> Daniel Wissell
> Principal Member Technical Staff
> Compaq Computer Corporation
> AlphaServer Platform Group
> 200 Forest Street, Marlboro MA 01752
> Mail Stop MR01-2/J17
> *TEL (508) 467-4379
> *FAX (508) 467-4493
> * daniel.wissell@Compaq.com

Date: Wed, 18 Jul 2001 17:59:42 -0500
From: "Chuck Carpenter" <w5usj@globeco.net>
To: qrp-1@Lehigh.EDU, George Baker <w5yr@att.net>, Lew Paceley <lew@paceley.com>, Richard Kapalczynski <n5ji@yahoo.com>, Dwain Lawhon <dlawhon@ix.netcom.com>, Bill Pierrard <k5jhp@flash.net>, Don Wines <dwines@tyler.net>, Preston Buck <pdubuck@earthlink.net>, Larry Jones <ljones@flash.net>, Subject: [103019] NETXQRP Club Meeting
Message-ID: <3.0.2.32.20010718175942.00810100@mail.globeco.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

QRPLers,

The next meeting of the NETXQRP Club will be held this coming Saturday.
Interested folks are invited to attend.

Saturday
July 21, 2001
1:00 to 3:00 PM (or so)

John Y Miguel's Cafe (Tex/Mex & 'merican)
104 State Highway 205
Terrell, TX
Phone: (972) 524-1447

Directions:
Miguel's is on the west side of Terrell. It is on 205 north, near the intersection of I-80, 205, and 148. 205 goes north from I-80 toward Rockwall and 148 goes south back across I-20. Go north on 205 about 1/4 mile and it's on the right. Big place, hard to miss. It's just past a Kuick Kar lube-and-tune place and across the road is a Walmart plaza.

If you have a favorite QRP something you'd like to bring along, please do. Weather permitting we may try some portable operation either behind the restaurant or at a local park in Terrell. Come join the fun!

For more NETXQRP Club info check our website: <http://www.netxqrp.org/>

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
ARCI #5422, QRP-L #1306, SOC #57, Six Club #201, SMIRK #6275
Zombie #759, RARA #3, Visit NETXQRP Web Site: <http://www.netxqrp.org>

End of QRP-L Digest 2254

